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GRADUATE

THE UNIVERSITY OF TORONTO ALUMNI MAGAZINE

HELEN HOGG: STARS IN HER EYES



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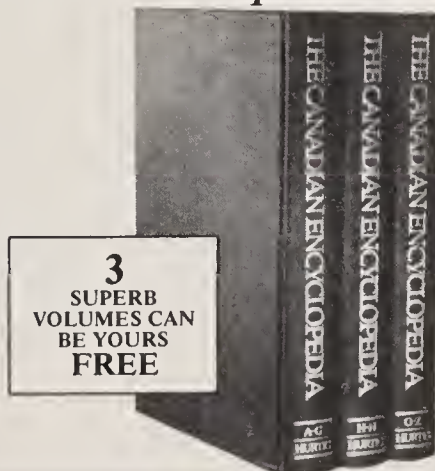
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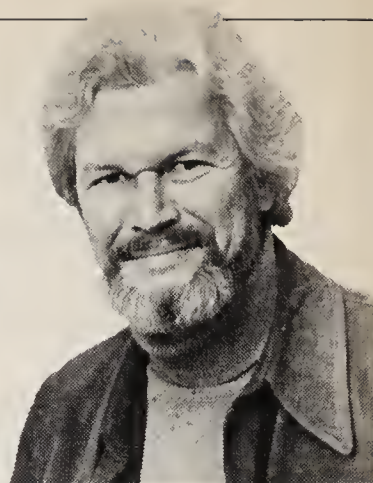


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OVER THE TRANSOM



THE LETTER WAS DATED MAY 14, 1984. IT WAS FROM Donald B. Smith (Trinity 6T8, Ph.D. 7T5), an associate professor of history at the University of Calgary. Would I, he asked, be interested in a short submission on the U of T men who participated in the Rebellion of 1885? Was I aware that one of our men was on the other side? The result was our cover article "Ordered to Winnipeg" in the Nov./Dec. issue.

This is known in the trade as something coming in over the transom. A transom (for younger readers) is a window above a door, which can be opened to let fresh air in (or stale air out) without disturbing one's privacy. It is manipulated by a hooked pole which angles it inwards. If someone wanted to send a nasty note anonymously it could simply be tossed through an open transom, hence, ultimately, the word came to be used for unsolicited manuscripts. Such, for example, was the case with Joan Lennon's "Reviewing the Trope" (page 25), which I simply couldn't resist. But I stray.

Good things come in over the transom rarely, but when they do they bring joy to an editor's heart. In the past several years we have published several such pieces — unassigned, unsolicited — generally with much favourable response. With "Ordered to Winnipeg" it went a bit beyond that. Hence, congratulations and our gratitude to Donald Smith, whose "over the transom" piece won an award for best achievement in feature writing from the Public Affairs Council for Education, an association of alumni affairs, information and development offices of Canadian universities and colleges.

* * *

It was one of the few really nice things that happened over the summer; much of the rest has been chaos and confusion (computers again, read on) and a severe disappointment in our failure to insert a questionnaire card in the magazine.

In the May/June issue of *The Graduate* we talked about the Career Counselling and Placement Centre, and asked you to help by answering questions on the enclosed card and returning it to the centre. It was designed to help the centre to provide jobs and guidance to students. Rivi Frankle, the centre's director, was stymied, we said, because she doesn't have answers to questions as many as 20,000 students ask each year.

Many of you read our plea, reached for the card and, presumably, wondered what was going on. It's complicated and has to do with dockets, gremlins and perhaps even grins. The card was only inserted into a small proportion of the total circulation and so we are sending it again, this time stapled into the magazine!

Those who *did* respond can simply ignore it. Those who wanted to but couldn't, please do so. Graduating students need all the help they can get. Many of you are in a position to provide information they need, others may have time to counsel young people with an eye to your particular profession.

We had to change the name (Career Centre) and address (Koffler centre with all the other student services) so we took the opportunity to make a few more changes. We have added university to the education section, and business address and telephone to the current position part of employment. The additional information is for alumni files in the new records system. (Computers again, they keep cropping up, please keep reading.)

But the questions concerning education and significant positions which have led you to where you are, form the basis of the information Frankle needs.

* * *

Computers can manipulate enormous amounts of information, which they convert to something called binary code, which reduces everything to a series of ones and zeros. Truly they are incredible electronic contrivances. They cost a fortune and, somewhat like early motorcars, sometimes it is necessary to spend more time attending to their needs than actually using them. That's because of a phenomenon called "state of the art" which means that not even the person who invented something quite understands how to make it work. The art is to conceal the art. Somebody once said that. Computer scientists occasionally transcend the concealment of their art. They have concealed data so cleverly that it is proving difficult to retrieve.

Such has occurred with the names and addresses of some 10,000 new graduates who will not be receiving this issue of the magazine. We fervently hope they will be on the mailing list for the Nov./Dec. issue.

In the case of the Department of Private Funding, the new information system is proving particularly balky (see page 28) and we ask that you be patient if receipts for donations are not forthcoming as speedily as one would like. Have faith; it's really a super system once we get the bugs out of it.

John Aitken, Editor

GRADUATE



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HELEN HOGG

BY JUDITH KNELMAN

'I'VE SPENT 59 YEARS WORKING IN
THIS FIELD AND I'M NOT THROUGH YET'

ASTRONOMER HELEN SAWYER HOGG REMEMBERS being allowed to go out after dark one spring evening in 1910 to see Halley's Comet. "I don't remember much about the experience," she says, "but I can still visualize the thing with its lovely tail."

She was five then, growing up in Lowell, Mass., in a family drawn to nature. Her father, a banker, and her mother and aunt, former school-teachers, encouraged her to observe and learn about wild-flowers and ferns and leaves and rocks and stars. Which she did, receiving a Ph.D. in astronomy from Radcliffe in 1931 for her work at the Harvard College Observatory, so that when she sees Halley's Comet again in 1986 she'll be able to absorb a little more from the experience. She says in an article in the *Queen's Quarterly* (written with her son David, also an astronomer): "Its period of around 76 years has permitted a large proportion of the earth's inhabitants to see it once. A favoured few see it twice."

Though Hogg, who taught at U of T for 31 years and has been doing research at the David Dunlap Observatory since 1936, turned 80 last month, she shows no signs of wanting to retire to a rocking chair on the front porch to watch the world go by. Her job is to watch the *universe* go by. "I've spent 59 years working in this field, and I'm not through yet," she says.

An internationally recognized authority on variable stars in globular star clusters, she observes changes in the size, temperature and brightness of hundreds of stars in globular star clusters in order to be able to estimate, among other things, their age and their distance from the sun. That adds to the information we have on our galaxy, the Milky Way, which contains about a hundred thousand million stars, one of which is our sun, and is just one of millions of galaxies in the universe.

About 130 globular clusters outline the Milky Way. (Galaxies more massive than our own have more clusters

— perhaps as many as 10,000.) Each cluster contains tens of thousands to hundreds of thousands of stars moving in slow and beautiful symmetry around a common centre of gravity as the cluster itself orbits around the centre of the galaxy. The orbits take millions of years to complete. Clusters were the first stellar formations: with ages of 16 to 18 billion years, they are close to the age of the universe.

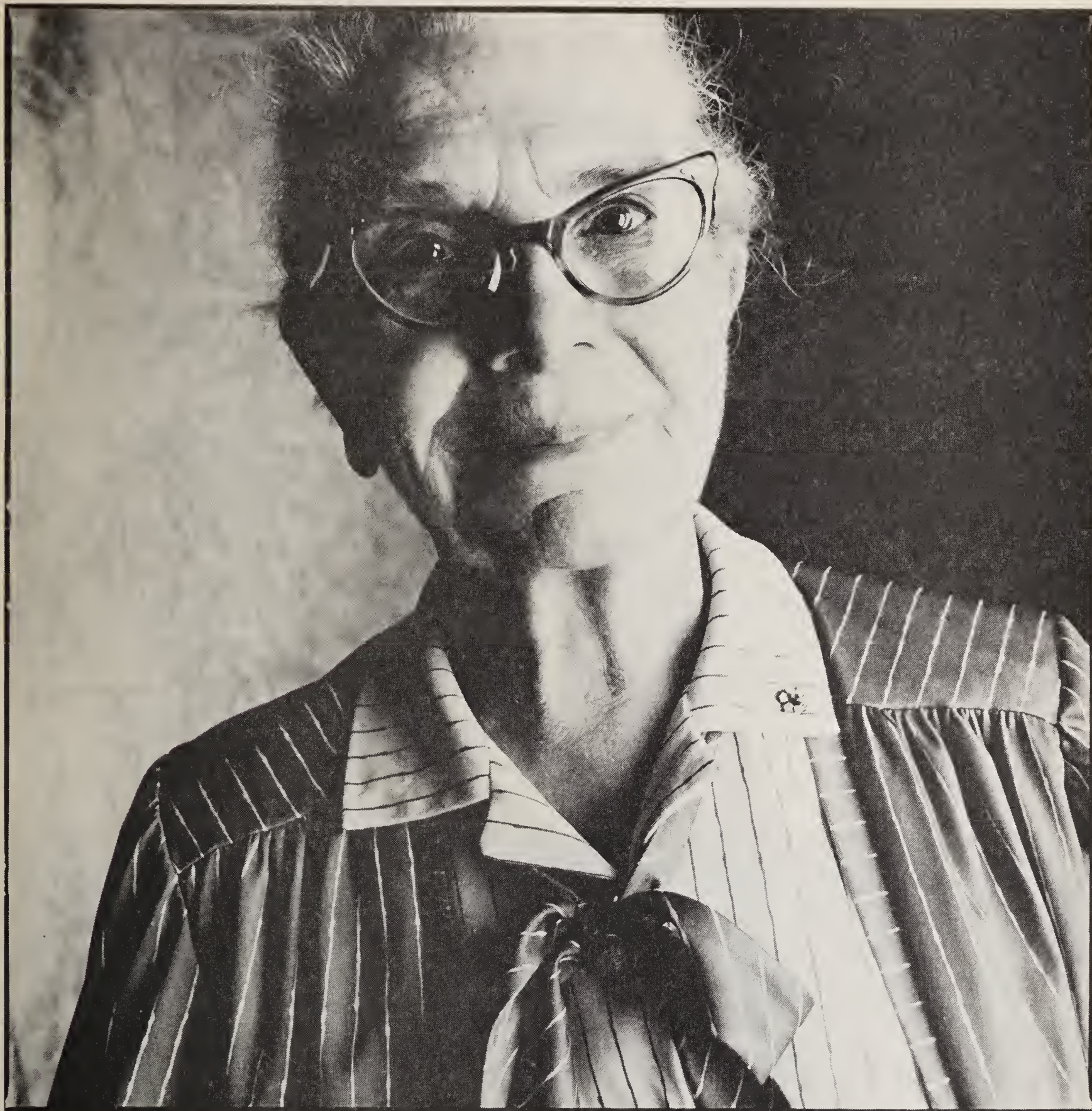
So information about the way in which their stars — globes of glowing gas — pulsate as their nuclear-generated energy pours out is extremely useful. It takes years to accumulate, though. A star's cycle from bright to faint to bright again takes anywhere from days to hundreds of days. Clusters are only observable during our summer months, and if someone else needs the telescope, or clouds come up, or the sun gets between the earth and the cluster, the observer may have to wait a year for another chance to document the cycle further.

Hogg has not only taken about 2,000 photographs of clusters at various points in their stars' life cycles but has also published her findings in numerous scientific papers. As the authority on the subject, she has combined them in a series of catalogues — the only such compilations that have ever been published — with the discoveries of other astronomers working in the same field of research. Her first catalogue was published in 1939, and she is now working on her fourth up-to-date version.

That is the way scholarship works in astronomy. When you deal in billions of years and in distances of tens of thousands of light years, 59 years of observing does not seem a great deal. "I don't think I've made that many earth-shaking discoveries," says Hogg self-deprecatingly. "It's just a case of working along and accumulating a lot of information in one area."

She is still doing bibliographical work and working with the glass negatives produced by other observer-





BRIAN SMALE

Helen Sawyer Hogg in July 1985 and, opposite, in January 1939. Sitting beside her in the group, from a photograph of the staff of the David Dunlap Observatory, is Professor C.A. Chant, who was instrumental in establishing the astronomy department at U of T and the observatory. Standing are G.H. Tidy, assistant (left), Professor R.K. Young, director, and Frank Hogg.

photographers, but several years ago she gave up personal observing. Staying up all night and moving the huge telescope around was just too strenuous. "I find I don't have the physical strength I used to. I read of go-getters like Bob Hope, who's 82, and marvel at them. I haven't that kind of energy. But I'm still working every day."

Helen Hogg's first job was as a teacher at Mount Holyoke College, where she had done her undergraduate studies. In 1931 she gave that up to accompany her Ontario-born husband, Frank, also an astronomer, to Victoria, where he had a job as a researcher with the Dominion Astrophysical Observatory. Rumour had it that Cecilia Payne, now regarded as the foremost woman astronomer of all time, had been turned down for the job because it would not be proper for a woman to spend nights in the dome with male technicians.

There was no question in the depression years of a wife's being employed at a government service where her husband worked, but Helen didn't mind being unemployed as long as she had access to the telescope at Victoria, which was the second-largest in the world at the time. As long as her husband was willing to chaperone her, she was allowed to do her observing. So by virtue of being a married woman, she was able to use the telescope to which brilliant Cecilia Payne had been denied access. Far from being held back in her career by her marriage, she was actually advancing beyond the boundaries established for unmarried female astronomers.

The first year, Helen spent many a winter night keeping Frank company as he worked on his programs of observation. That summer she had a baby and took her up in the dome in her basket on several occasions so that

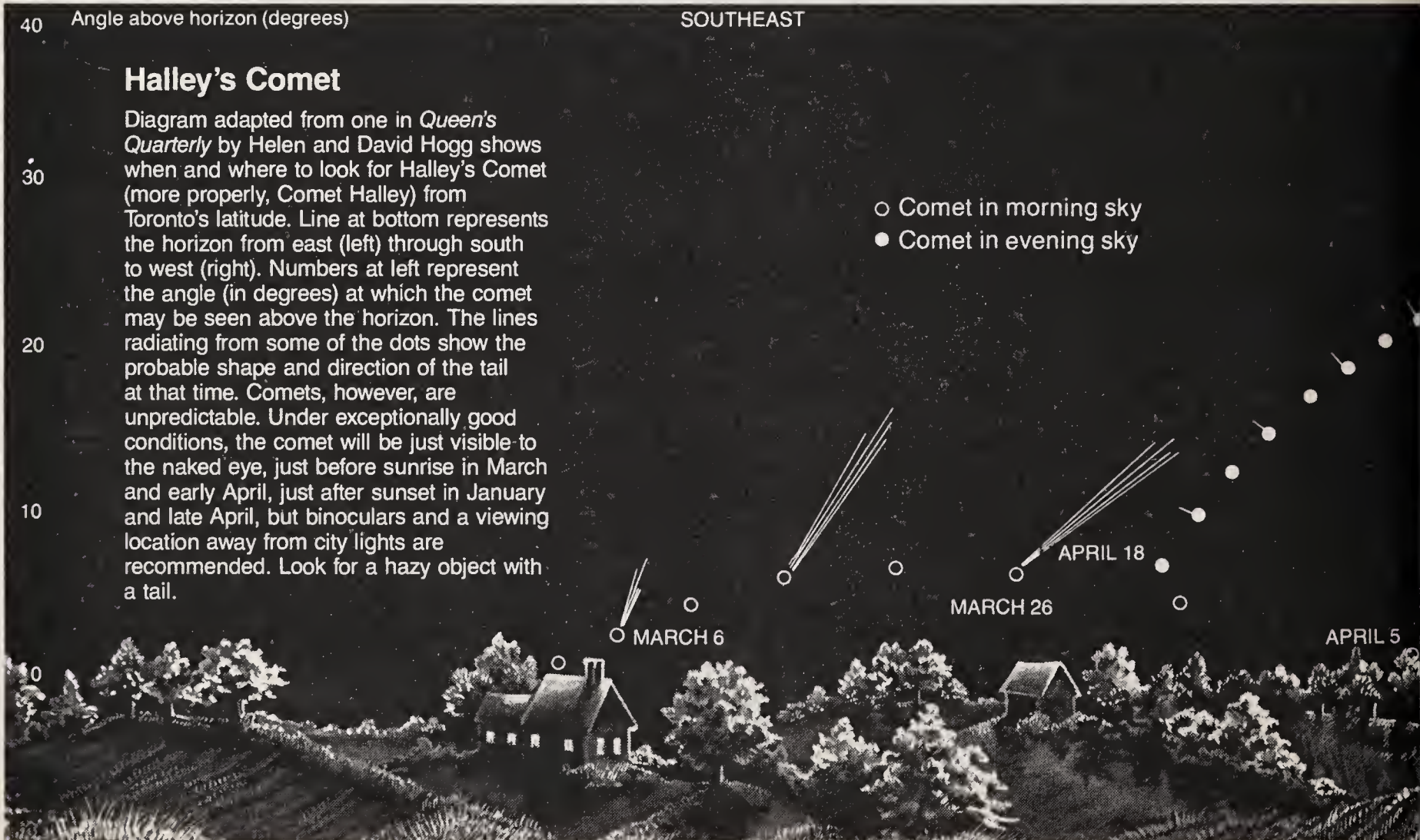
she could be fed on time. Helen was not held back by motherhood. She was going places, even though she wasn't being paid. Indeed, she was establishing a scientific reputation every bit as impressive as her husband's.

In 1935 Frank took a position as a lecturer and researcher at the new David Dunlap Observatory of the University of Toronto, whose telescope bumped the one in Victoria to third place. The second year the Hogg's were in Toronto, J.S. Plaskett, director of the Dominion Astrophysical Observatory in Victoria, managed to get Helen a research grant from the National Academy of Sciences for \$200, which bought her the services of a maid for a year. "If I had it to do over again in present times of household help I don't know how I'd manage," she says. "I'm not sure I could take children to day-care centres. I was brought up that home is where the child is unless it is in school."

From 1936 on she was working virtually full-time. In 1941 her responsibilities increased as male astronomers went to war, and she became a lecturer as well as a researcher. Most of her teaching was directed at the general student who wanted to know something about astronomy but wasn't anxious to take more than one course in it.

Frank Hogg died on Jan. 1, 1951, five years to the day after he became director of the observatory. "It was a difficult time then. He was taken very suddenly, and then when somebody who's director and head of the department goes it leaves a void.

"I myself was teaching and I had the children, so it was a heavy time." Helen went on with her research and took on a column on astronomy for the layman that her husband had been writing for the *Toronto Star*, which ran for 30 years and grew into a book on popular



astronomy, *The Stars Belong to Everyone: How to Enjoy Astronomy* (Doubleday, 1976).

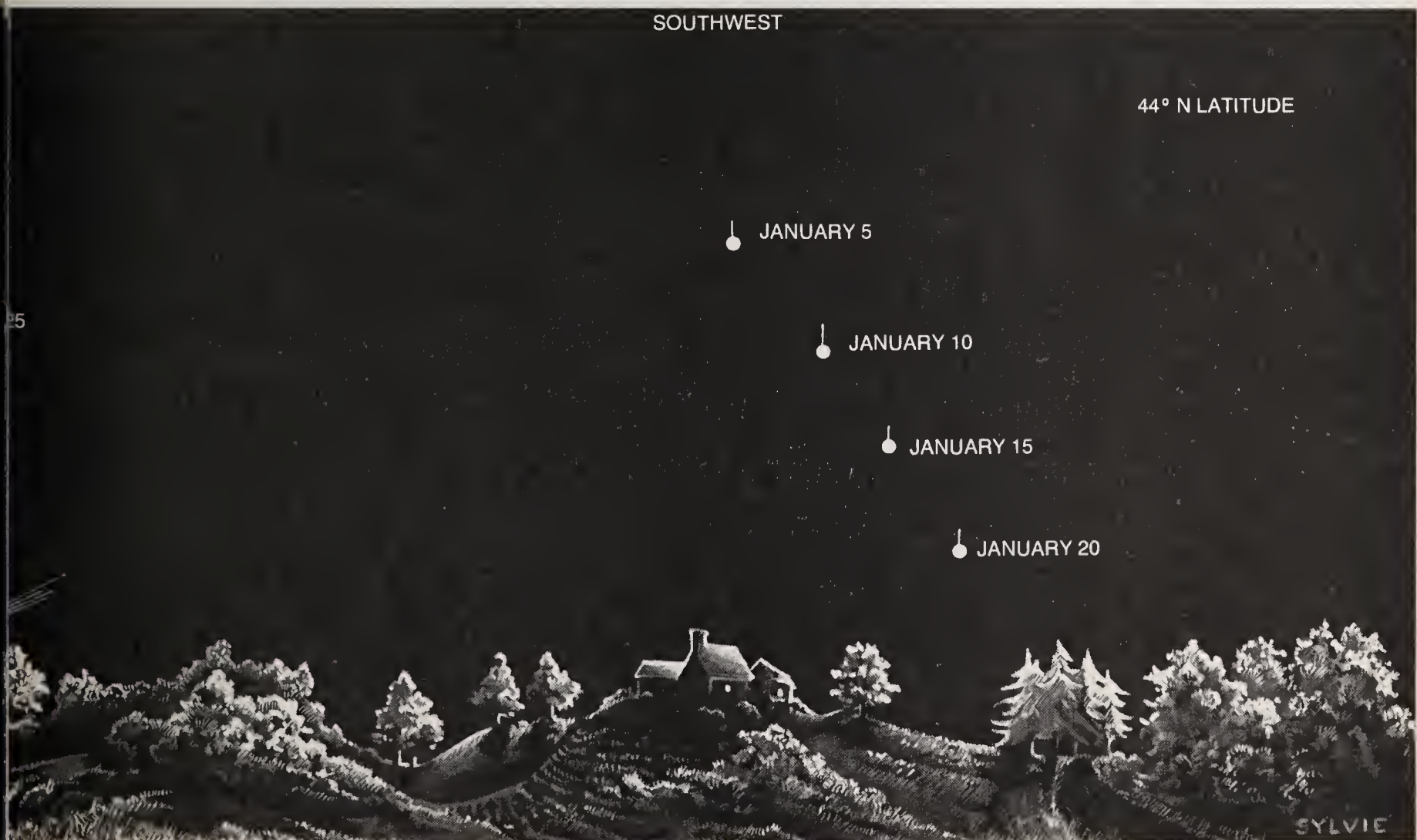
Meanwhile, she was rising through the ranks at the University, becoming a full professor in 1957. In 1950 she received the Annie J. Cannon prize of the American Astronomical Society, an international award given once in three years to a woman astronomer for her research. In 1958 she received an honorary doctorate from Mount Holyoke. In 1959 she was elected president of the Royal Astronomical Society of Canada. In 1962 the University of Waterloo awarded her an honorary degree. In 1964 she became the first female president of the Royal Canadian Institute. In 1967 she received four medals: the Rittenhouse Medal of the Rittenhouse Astronomical Society of Philadelphia, the Service Award Medal of the Royal Astronomical Society of Canada, the Radcliffe Graduate Achievement Medal and the Centennial Medal of Canada. The following year she was appointed an Officer of the Order of Canada. In 1971 she became the first president of the Canadian Astronomical Society. In 1972 an International Astronomical Union colloquium was held at the University of Toronto in honour of her life work. In 1976 she was promoted to Companion of the Order of Canada.

That year she retired from teaching and was named Professor Emeritus. The following year she was awarded an honorary degree by U of T. In 1981, the year she stopped writing her newspaper column, she collected an honorary degree from St. Mary's University. She continued going into the Dunlap Observatory every day, methodically adding to astronomers' knowledge of variable stars in globular clusters. Her career seemed to be drawing quietly to a close.

Then in the spring of 1983, with the receipt of the

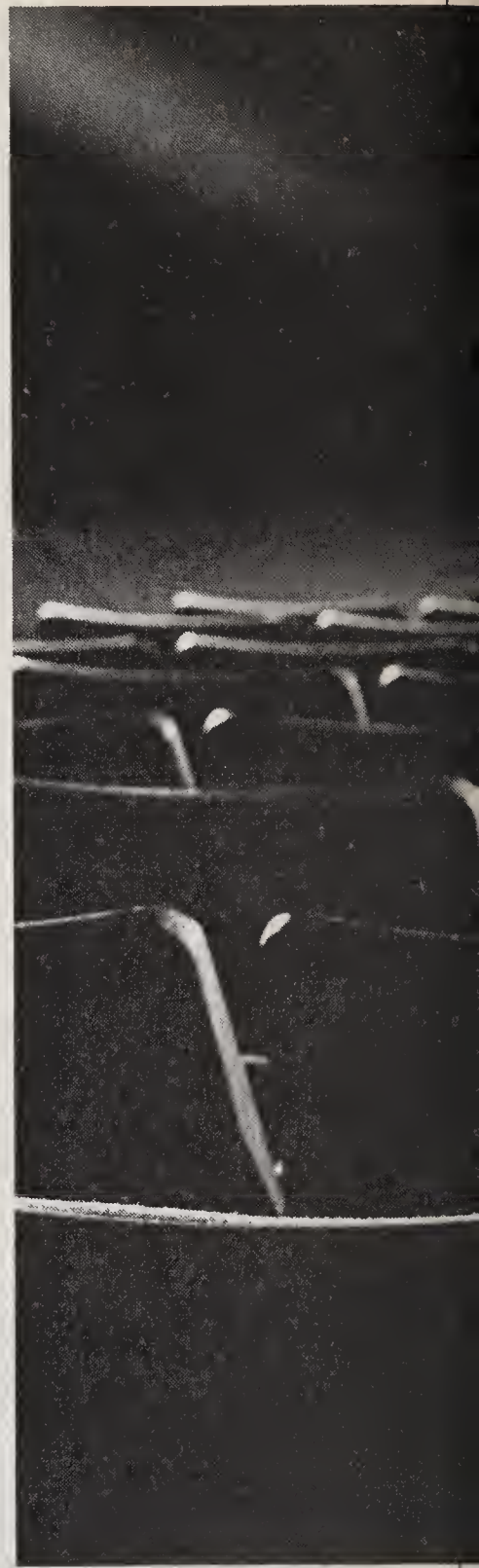
Dorothea Klumpke-Roberts award, given by the Astronomical Society of the Pacific for her fostering of public understanding and appreciation of astronomy, the honours started coming in again. The following year the International Astronomical Union named a minor planet Sawyer Hogg after her in recognition of her scholarly and popular contributions to astronomy. (A lunar crater had already been named Hogg after her husband.) In July 1984, she officially opened the Edmonton Space Sciences Centre and was named honorary chairman of the board of directors of the Faculty of Science Foundation at the University of Waterloo. In January of this year a special session was held in honour of "Canada's most distinguished and beloved astronomer" at a joint meeting in Toronto of the American Association of Physics Teachers and the American Physical Society. In March she received an award of merit from the Toronto City Council for the distinction she has attained in her field. In April she was presented with the Royal Canadian Institute's Sandford Fleming Medal. In May she flew to Alberta to receive an honorary doctorate from the University of Lethbridge and open the university's Astrophysical Observatory and immediately returned to Toronto to attend the first Helen Sawyer Hogg annual public lecture of the Canadian Astronomical Society.

"It's one of those strange things that all these things are happening now," said the seasoned observer of strange things. But a colleague, Donald MacRae, director of the observatory and chairman of the department from 1966 to 1978, offered a more logical explanation: "She's sort of a first lady of science. When people think of women who have succeeded in their scientific careers, they naturally think of Helen Hogg."



MOVING EXPERIENCE

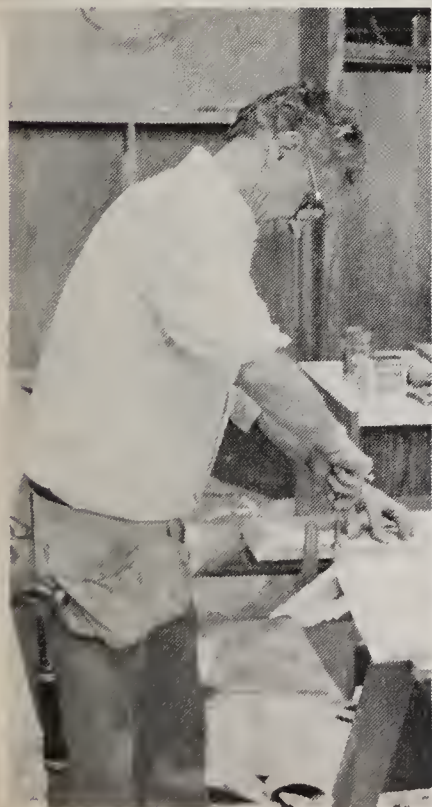
It took two moving companies, 5,340 boxes and five weeks to move six student services, the bookstores and 218 staff into the Koffler Student Services Centre at 214 College Street. Toronto's central library until 1977, U of T bought the building and the land along College to the Architecture Building from Metro Toronto in 1980 for \$1.1 million. Renovations cost \$8.7 million.



Architect for the project was Howard Chapman (4T9). His father, Alfred Chapman, designed the College Street building (above), built in 1909, and the 1930 St. George Street addition.



The Bookroom's stationery department offers a full line of school and office supplies.



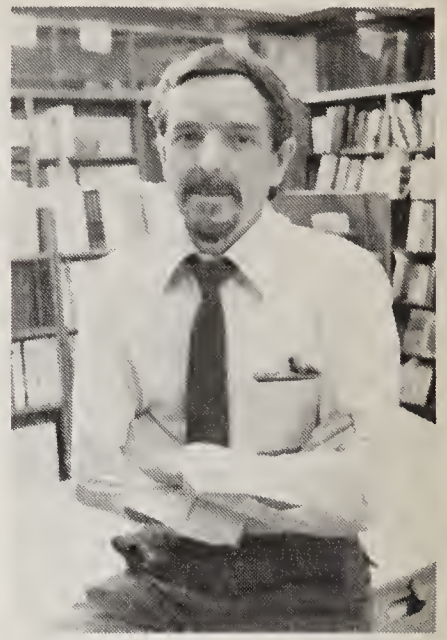
Murray Koffler (Pharmacy 4T6), who developed the Shoppers Drug Mart concept, gave \$1 million to the centre, and now heads the fund-raising campaign to refurbish the Drama Centre's new theatre by selling the 170 seats for \$1,000 each.

Christine Sampson, who rated the building as "fantastic", visited secretary Carol-Ann IteI and co-ordinator Eileen Barbeau (centre) in the office of Services to Disabled Persons.



Student services are in a mall joining the two wings. At ground level off St. George are the Career Centre, housing, disabled, psychiatric and counselling services, on the mezzanine student awards, on the second floor the medical clinic. This fall, a chaplains' office will be established on the third floor.

Children have discovered the Bookroom's Pooh Corner.



Bookstores manager John Taylor expects sales well above last year's total of \$17 million. The stores carry 50,000 titles, which he calls "probably the best selection in Toronto."

The Bookroom, in the Great Hall, has attracted many customers from on and off campus since it opened in June.



ROBSON ON MILL

BY JUDITH KNELMAN

'HE WAS FORCED TO THINK. THIS
WAS GOING TO BE THE
UTILITARIAN MESSIAH'

THAT JOHN STUART MILL IS NOT A SEXY SUBJECT WAS definitively established in 1978, a little more than 100 years after his death, by Kingsley Amis, whose novel *Jake's Thing* depicted a sex therapist using three passages from *On Liberty* to turn off the effect of sexual fantasies on the hero.

"That was very naughty of Amis," says John M. Robson, professor of English at Victoria College, who has been working on a collected edition of Mill for 26 years and contends that he is a passionate writer.

Mill is sometimes unfairly regarded as a machine produced by a system. From an early age, he was tutored by his father so that he in turn could teach his younger sisters and brothers, of whom there were eight. He began to learn Greek at the age of three and learned Latin at eight so that he could teach it to two sisters. He wrote a history of British India as a very young child, probably before he turned six, in imitation of his father, who was writing on the same subject. At six he wrote a history of Rome, part of which has survived and is reproduced in Volume 1 of Robson's collected edition of Mill along with the autobiography and literary essays.

James Mill would take his son for long walks and explain economics and philosophy to him. The younger Mill wrote years later that he could remember the exact place in Hyde Park where his father asked him what he meant by the word "idea". Though he was only about 12 at the time, he doubtless gave a complete answer. "He was forced to think," says Robson. "Nothing rote would do. This was going to be the Utilitarian Messiah."

Despite the intellectual grooming by his father and the Mills' neighbour, the Utilitarian Jeremy Bentham, the younger Mill grew up to be a radical social democrat who campaigned for such reforms as free speech, birth control, equality for women and land nationalization.

In 1851, two years after the death of her husband, he married Harriet Taylor, whom he had been seeing for something like 20 years in what Robson says was a very proper relationship. "They were both inflamed with romantic notions of ideal love, which kept them going."



This cartoon of Mill appeared in Punch in June 1867. His espousal of unpopular causes cost him his seat in the House the following year.

In 1865, at 59, Mill won election to the House of Commons, where *The Times* said he behaved with "impetuous eagerness", but his espousal of unpopular causes brought him down in 1868. He died in 1873.

Because he wrote so much and on such a wide range of subjects, many of them still burning popular issues, Mill is widely read and often cited, so that to come upon an unidentified quotation from one of his works is not an unusual experience for a Mill scholar. Nonetheless, Robson choked when he recognized the passages in the Amis novel and rushed gleefully to his typewriter to report the citation in *The Mill News Letter* (published by U of T Press and Victoria College) with the observation that the British birthrate must have begun to drop in 1859 and not in 1876, as had been thought.

Though he has devoted his career to meticulously reproducing the writings of one man, Jack Robson is anything but a Dryasdust scholar. Indeed, every issue of the newsletter has what he calls a piece of "Milliana". One reported the gratitude of a Victorian Sunday school superintendent on being presented with the complete works of J.S. Mill and Samuel Smiles's inspirational *Self Help*. "You have gone too far," said the superintendent: "I am not deserving of such a treat as this."

Despite the gentle jokes (communicated with such typical Robsonian plays on words as the observation that a Smiles is as good as Amis) there is no question that Robson has a deep respect for Mill and his contribution to political science, economics, history, psychology,

literature and philosophy — a sweeping range. He says in jest that he was first attracted to Mill when he realized that he could write substantially the same answer in his final undergraduate examinations in three courses: philosophy, political science and English.

"I didn't know as much about his methods of argument as I know now," he says, "but they appeared on the surface very straightforward. I now realize that they're much more subtly organized than I thought they were. I have an enormous respect for his intellect. I can almost always find something in him that is a better thought than anything I have had on a particular subject. Now that I've done the newspaper writings I feel that I know more about him than I did before."

He has now completed the editing of 20 volumes of Mill's books, correspondence, articles, essays and juvenilia. Still to come are the newspaper writings (Volumes 22 and 23), the speeches and journals (24 and 25), writings on India and miscellaneous essays (Volume 26) and the indexes (Volume 27). Compiling the notes to the newspaper volumes is taking longer than expected, since the purpose is to recapture for the contemporary and future reader what a mid-nineteenth century newspaper audience would have had as a context. These volumes will show Mill as a radical in his early life.

The need for a modern collected edition of Mill's works struck Robson in the mid-1950s, when he was in England working on his doctoral thesis on Mill's social and political thought. But the young scholar's suggestion to the president of Longman's, the firm that published Mill, was dismissed as preposterous. Who could afford to collate texts of so many works, a few of which were already available, and provide accurate texts of so much more that had never been published or was long out of print?

Robson received his Ph.D. from U of T in 1956 and went on to teach at U.B.C. and the University of Alberta. He came to Vic in 1958 and mentioned his encounter with Longman's to A.S.P. Woodhouse, the legendary head of English at University College, who realized that such a project would not only be a boon to scholars but could put the University of Toronto on the map. In short order Woodhouse sold the idea to Marsh Jeanneret and Frances Halpenny at the U of T Press.

Planning started in 1959. A year or two later, the project, led initially by Professor F.E.L. Priestley, with Robson as textual editor, got \$1,000 from the University to hire a research assistant, and Vic contributed a filing cabinet. After what Robson remembers as a "great fight" involving applications to the dean of arts and science, the English department, the dean again and then Victoria College, the project acquired a typewriter from the English department.

Robson took over as general editor in 1972, when Priestley retired. Over the years the project has expanded to the point where it now has one two-thirds-time director, one full-time research assistant, one full-time post-doctoral fellow, one half-time editorial assistant, two one-third-time research assistants, one word processor, one typewriter and two tape recorders — not a great deal as massive editorial projects go.

It is a project as modest as it is ambitious. Ask Jack Robson how much in SSHRC (Social Sciences and Humanities Research Council) grants it has cost so far

and he looks vague. Scientists keep track of that sort of thing, but Two five-year SSHRC grants will carry the project to June 30, 1986. "I don't pay any attention to the amount," he says. "It covers the costs." In fact, from 1967 until this year the project has had just over a million dollars from the Canada Council and SSHRC.

The series made its debut in 1963 with Volumes 12 and 13, the *Earlier Letters*. Robson and Priestley had set their hearts on giving the *Autobiography* the place of honour as Volume 1, but as things turned out that wasn't ready for publication until 1981. "Our solution, while ridiculous, was no more ridiculous than any other."

Volumes 2 to 5, on economics, came next. "We took what we thought was the most complicated text, *Principles of Political Economy*, to see if our editorial methods would work." Volume 6 was reserved for political writings, but they needed more space, so they were given Volumes 18 and 19 as well. Volumes 7 to 11 are mainly philosophical writings, and Volumes 14 to 17 fill in the later correspondence. Volume 21, *Essays on Equality, Law and Education*, came out a year before Volume 20, *Essays on French History and Historians*. "We were sure that when Volume 20 came out, we'd be back on track, but Volume 21 came out first. Now we're going to be in order."

Other people have written the scholarly introductions to the various volumes, but it is Robson, with the help of his research team, who has handled the textual editing, which involves many responsibilities from considering which version of the text to reproduce, how much to amend, and how full to make the footnotes to methodical, tedious jobs like collating texts and proofreading. Throughout the project, he has had the help and support of his wife, Ann, a professor of Victorian social history, who is now directly involved in the newspaper volume, writing the introduction and doing textual editing.

"We made the decision to go against the stream and print the last version of whatever Mill wrote because that's the one he wanted," he says. "Through footnotes you can reconstruct the original text. Initially, we were very much running against the tide, though now it is generally admitted that one chooses the text that best meets whatever one is trying to do. In Mill's case there's no question of his approving the later editions. He saw each one through the press. I have made the point that scholars who object to our method aren't looking at their own experience as authors." He adds, with some satisfaction: "I think we've had an influence on the history of textual editing."

After 25 years, the project has become a part of the Robsons' life. However, it is a labour of love whose demands ebb and flow in response to other obligations, including the principalship of Victoria College from 1971 to 1976. He has written four books and more than 100 articles, reviews, speeches and chapters of books, edited several books (in addition to the collected Mill) including a Mill anthology, and served with diligence and interest on a host of university committees from heavyweight bodies like the Senate and the Academic Affairs Committee to virtually every committee that Victoria College has ever had. His curriculum vitae notes that he is listed in the *Canadian Who's Who*, *Who's Who in America*, *Contemporary Authors* and the telephone directory.



John M. Robson, professor of English at Victoria College and general editor of the Collected Works of John Stuart Mill.

Planning for the project, which will be 27 volumes when completed, began in 1959.

Part of the secret of his ability to carry on so many activities at the same time may be that he has an alter ego, H.O. Hmnnn, a hapless professor and father of three employed at a large Toronto university given to conducting student evaluations, holding endless committee meetings and issuing turgid reports. Professor Hmnnn had a staunchly protestant grandfather who regularly asked him when he was going to start work. "Looking up from my books," reports the professor, "I would say, 'But I am working.' Then . . . his face would define disgust, and the turn of his shoulders would define the difference between the elect and the reprobate."

Mostly for the amusement of his family, Robson has been writing of Professor Hmnnn's encounters with such obstacles to happiness as disclosable diapers, royal omissions, courses on advanced decomposition, the committee on extra-committee activities, and the student who asks at some point in every class: "Can we skip this, or is it on the exam?" He published *The Hmnnn Retort* in 1970 and would like to put together a further collection of Hmnnn's writings and ramblings. He'd also like to bring out a collection of articles he's written on Mill and write a biography of Mill. Professor Hmnnn would say he's never going to run out of grist. ■

WALL OF DISTINCTION NEEDS 'ALL THE HELP WE CAN GET'

IT WAS GRATIFYING TO BE RECOGNIZED in Mary Martin's Alumni News in the Nov./Dec. issue for the hours I have spent in identifying outstanding U of T athletes of the past 80 years. But the results would have been mere hand-written, or perhaps typed, lists had not the women's and men's T-Holders' associations established and funded the Athletic Wall of Distinction. To date the cost has been \$6,800. Since Mary's article, a T-Holder gave \$400 to cover the cost of a pictorial tribute to Warren Stevens, which now hangs in the building named after him.

Much remains to be done.

The Wall must be completed by adding name boards for the Commonwealth and Pan Am Games and the six intercollegiate sports not included in the major games. And it must be regularly updated.

We would like to establish a Hall of Fame. The Wall will help to identify potential nominees.

The tremendous success of our athletes has doubled the number of names from that estimated three years ago, hence doubling the costs. The T-Holders' associations have established a channel through which contributions, eligible for deduction for income tax purposes, can be made. Cheques should be payable to the Varsity Fund, T-Holders' Historical Project. We can use all the help we can get.

As noted in Mary's article, we cannot be certain that we have identified everyone who is eligible; records are neither complete nor comprehensive enough. So we must rely on being told of omissions. As a result of the article Doug Ramsay (Engineering 5T2) wrote from Regina to submit the name of his father Beattie, who was a member of the Granites, Canada's gold medal winning ice hockey team. Also Donna Atkinson Hennyey (Vic 6T4) wrote to say she had won her T in fencing. Donna was an Olympian in 1972 and 1976 and also a member of three Pan Am Games teams. As it had been anticipated that up to five per cent of eligible individuals might have been missed (or say 15 names) things look good.

Hud Stewart
Past President
Men's T-Holders' Association

Letters may be edited to fit available space and should be addressed: Graduate Letters, Department of Communications, University of Toronto, Toronto, M5S 1A1.

The excellent article in your May/June issue, "The Benefits of Nuclear Energy" by Professor O.J.C. Runnalls, is timely. Would that it could be made available for all concerned mankind.

As time passes and brings a famine of fossil fuels by far the most hopeful source of energy, for even the most modest of demands, is nuclear. Existing fission, emerging breeder and future fusion reactors offer the only potential source for the enormous quantities of energy envisioned for long term world needs.

E.T.W. Bailey
Hamilton

I risk wearying you and your readers by referring to the two responses in your May/June issue to my article "Avoiding Nuclear Hazards" in the March/April issue. I have now had a number of requests for copies of my article, and for information on the *in situ* electromagnetic process for energy production from solid fossil fuels mentioned in the preface. I have therefore arranged to have copies made. These may be ordered from me at: 400 Prince Arthur St. West, Apt. 5, Montreal, H2X 1T2, and asking for:

1. S.T. Fisher, Avoiding Nuclear Hazards, *The Graduate* March/April 1985, p. 16. \$3.00
2. S.T. Fisher, Processing of solid fossil-fuel deposits by electrical induction heating. IEEE Transactions. Part 1 Vol. IECI-27 No. 1 (1980) 363. Part 2 Vol. IECI-28 No. 1 (1981) 65 \$5.00

No debate between the convinced and unconvinced ever settles a point at issue, and I believe that this is the only useful way to reply to Professor Runnalls and Professor Andrews.

Sidney T. Fisher
Montreal

Were other alumni as astonished as I was to see the President of the University, in full academics, advertising watches in the Toronto Symphony supplement to *The Globe and Mail*? Are such things all in a day's work for Varsity's chief officer? Or is this (as I much prefer to believe) a subtle way of showing the provincial government how starved we are for funds?

William Cooke
Toronto

In the May/June issue of *The Graduate*, you mentioned a survey card from the CCPC — my issue did not contain one, and, if Ms. Frankle is interested in hearing from graduates still hot-footing it down the path to a satisfying career, I'd love to have her send me one and I'll fill it out faithfully.

A few comments on your magazine. One of the letters to you commended you for not stooping to cute notes on whose kids weighed how much at birth. Whilst not denigrating the miracle of such events, I enjoy the current format far more than I would any social listing. It is one of the few publications that is always stimulating to read and not bounded by the confines of one particular discipline or interest. I join the applause — keep it up.

Incidentally, given the format of the university, social announcements, I feel, are most appropriately and competently handled by the college and faculty alumni papers.

On the theme of trees, geography students and careers, it may be helpful to the frustrated young graduates of U of T (in particular) to try to put the three themes together. A university education is a critical part of the "germination process" but, as a tree undergoes many changes and adventures in its growth, so a student and his or her education grows and matures through time. Ditto for careers.

Actually, that analogy only half works: an oak can't become a maple, but a symphony conductor can become an air traffic controller and accounting majors have opened craft studios.

Enough offbeat "philosophizing": the

appeal from the CCPC and the geography major's lovely piece on the architecture, geography and psychology of the university, together with the President's letter made a thought-provoking combination. Thanks for the exercise! And do send that form.

Gabriela Mann
Oshawa

Thanks for your interest and friendly comments. The card is enclosed — see editorial.

Editor

I appreciate receiving *The Graduate* as a 1939 engineering graduate.

I read almost all the articles. There is such a wide range of interest and thought. Invariably I share my copy with friends who have graduated from other universities that lack such an interesting publication.

I have been increasing my donations to the University year by year and *The Graduate* earns a portion of that for the excellent way in which it portrays the University as a whole.

F. Cyril Read
Lunenburg

I much enjoyed reading Marcel Danesi's article "Language Learning and Mental Flexibility" in the March/April issue of *The Graduate*, and I quite agree with his suggestions and conclusions.

As the article rightly argues that "knowledge of another language provides a different key" and further makes the point that the learner "must be taught to observe and codify experience as nearly as possible in the same way as native speakers of that language," I hope you will not find it unduly pedantic on my part to note that the final quotation in the article somewhat diminishes the effectiveness of the argument. As it stands, the ten words of the quotation contain no fewer than four errors, three in syntax, and one in morphology, all of which should not, in all fairness, be attributed to Goethe.

Had Goethe used the words in question, he would have written: *Wer keine fremde Sprache kennt, kennt seine eigene nicht*. Goethe did not, however, use these words, but instead wrote: *Wer fremde Sprachen nicht kennt, weiss nichts von seiner eigenen* (Maximen und Reflexionen, 1015), which is sufficiently different to warrant correction. To para-

phrase Alexander Pope, "A little German is a dang'rous thing." Even a great German, however, may prove hazardous on occasion.

Again, no offence, but very best wishes!

Bodo Reichenbach
Boston University

My husband, an engineering graduate (although not from U of T through no fault of his own), was very much impressed by the article "Ethics and Engineering" in the Jan./Feb. issue of *The Graduate*. He wanted to pass it on to our grandson who is entering engineering this fall. Unfortunately, I lost my copy. Would it be possible to obtain another?

Ainslie MacKinnon Gnaedinger
Wakefield, Quebec

First, let me say how much I enjoy *The Graduate*. In your May/June issue I particularly liked the article on older students.

Second, let me tell you a story. Because of an incident during my undergraduate years at W.L.U., I have a mission in life. It's not a cause many people would take up nor will it affect the lives of many people. My mission is to teach people how to spell Wilfrid as in Laurier with two i's. Why do I do this? On the very first case study I did for one of my courses, five marks were taken off for spelling that word wrong. This happened to be 1976, the year the school began to receive public funding and changed its name.

Jane Sanders
Mississauga

Ouch! Our apologies. We do know better. It was a typographical error — honest.

Editor

Just a note to pick up on my brother Bill's reminiscence of the Blue and White song in World War II khaki (Letters, May/June). This is in no way an improvement upon his prose, but to add my own recollections to an ever growing resource!

We too, at Camp Shilo Manitoba '52 had a piano (of sorts) at our post-supper disposal and many's the time our five stalwart U of T men went up against vocal villainies from Memorial University of Newfoundland, Brandon College and the incomparable Ontario Agricultural

College. The Artillery School accorded U of T the flag for persistence, remembering the words and some artistic qualities now evanescent.

Again in '58, doing a stint for Frontier College some 84 miles north of Sept-Îles, I remember with a kind of increasing pleasure the Blue and White strains mingled with the Canatîche Patois, the guttural tongue of the Crowfoot and various interesting colourations in between.

So, you see, whether we roar "EPISTAXIS", "TOIKE-OIKE" or "Come on old Trinity" to the lowering sky, we are merely saying, in the language of the Varsity, that we can depart from our mother, but we can NEVER leave her.

Keep singing, Gunner — our time is at hand.

Jim O'Brien
Thornhill

I am responding to your editorial, "Narrow Vertical," in the March/April issue. I eagerly look forward to receiving the magazine. Your readership without a doubt may be described as a "narrow vertical". However, as graduates, we are ambassadors of the U of T. Not all of us live in Toronto, and in many ways *The Graduate* helps me keep in touch with my university experience, and this helps me to be a better "ambassador".

By all means *The Graduate* is a friend, very welcome in my home.

Kenneth A. Nowakowski
Battleford

Before Mary Martin ("Our Astronaut Knows About Motion Sickness," Alumni News, May/June) says "we had her first", with respect to Roberta Bondar, she ought to check her facts. U of T can be justifiably proud of its role in preparing this outstanding Canadian for her present role.

But I think you should know that Roberta did, indeed, obtain her first degree on the Guelph campus. She graduated from the Ontario Agricultural College in 1968 with a degree in zoology. In that same year she first obtained her pilot's licence. As your article noted, she obtained her Ph.D. in neurobiology at U of T and later her M.D. from McMaster.

Don W. Jose
Press/Publicity
University of Guelph



POLITICS, PRINCIPLES & VIGOROUS DEBATE

CONTROVERSY IS COMMONPLACE IN UNIVERSITIES. The lively intellectual atmosphere provides an incubator in which debate about significant public issues can flourish. The involvement of students in serious political discussion and action is one sign that the university is doing what it should be doing — helping its students to make effective use of their intellectual gifts.

But universities as *institutions* have traditionally sought detachment from political issues and confrontation. Edward Shils in his recent book *The Academic Ethic* describes this tradition in the following words:

Except for occasional ceremonial affirmation of loyalty and in war-time, the highest officials of the universities . . . acting on behalf of the universities as institutions asserted no corporate position on political issues . . . whatever the attitudes of their individual members. By and large this situation still obtains and universities have generally been able to avoid being drawn into political controversies in which they would have to declare a position as a party to the controversy.

There are two very good reasons for this attitude. The first is that universities are dedicated to the principle of free inquiry — that members of the community have a right to seek the truth by rational methods of investigation and scholarship. There is no “official” university position on anything except the policies and conventions which allow the university to get its work done. This helps to ensure that our students are educated and not indoctrinated. The second is that universities claim immunity from outside interference. We expect governments and organizations to respect our special nature and to grant us freedom from political or economic pressure to conform to their views. (This is not a matter to be taken lightly; there is scarcely a single example of a totalitarian government which has respected the immunity of universities.) It follows, I believe, that the university should not misuse its privileged position by engaging as a corporation in political advocacy.

Shils describes the alternative model as follows:

. . . there have been demands made by students and by members of academic staffs . . . that their universities, in their corporate capacity, should make public declarations expressing the attitude of the university as a whole denouncing the war in South East Asia in the 1960s and 1970s or about the policies of racial segregation of the South African government. . . . that a university as a corporate body should, through its officially ap-

pointed representatives, make public declarations on all kinds of public issues about which some of its members have strong feelings and convictions, regardless of whether these issues touch directly on the university as an institution . . .

This issue came to the University of Toronto (not for the first time) in the form of a brief from the U of T Divestment Committee, a group of concerned students. The brief argued that U of T should dispose of its holdings in companies with business activities in South Africa. Governing Council debated this question vigorously in June and the debate will resume this fall. Views of Council members are clearly divided.

On one issue there is no difference of opinion — that the situation in South Africa is tragic and deplorable and that the racist doctrines of the government are the heart of the matter. Many members of the University community, including alumni, have for years been engaged in individual or group activities to bring pressure to bear on the South African government. But intervention by the Governing Council is another matter.

In my statement to Council in June, I pointed out that officers of the University frequently make moral judgements as part of their administrative responsibility. There are ethical values shared by members of the University community which are given expression in our conduct. We cannot avoid moral judgements in the conduct of our affairs, nor should we.

How should U of T bring its moral judgement to bear on the South African question? Other universities have formulated policy based upon the idea of “social injury”. By this policy, the university would terminate its relationship with a corporation shown to be acting in a way which was harmful to the black people of South Africa (or other people elsewhere). There are, however, many who believe that the pressure of multinational corporations in South Africa offers one of the best hopes for improvement in conditions there.

Whatever course the Governing Council chooses, the University will continue to be an arena in which opinions are strongly held and thoroughly tested in debate, and in which individuals are given the conviction and competence to pursue their ideals in the wider world.

George Connell

President



UNIVERSITY OF TORONTO

FACULTY OF EDUCATION ALUMNI NEWS

September/October 1985

MESSAGE FROM THE DEAN

I would like to bring you greetings on behalf of the staff of the Faculty of Education, University of Toronto. I wish to offer a special welcome to all recent graduates and new members of the Faculty of Education Alumni Association. We hope through these newsletters to keep all alumni up-to-date on events and changes occurring at FEUT throughout the year.

One very important new initiative being undertaken this year at the Faculty with the assistance of the Alumni Association will be the provision of access for the disabled to our building. Alterations will include not only the provision of access for the disabled to the building itself but also the up-grading of its interior facilities. Renovations to a building which is now in part over seventy-five years old are clearly needed to bring our premises into line with services for the disabled which should be expected of any public facility. Details of these initiatives are more fully outlined elsewhere in this newsletter.

Finally I would like to thank the Faculty Alumni Association for its bequest to the Faculty of a fine portrait of Dean John C. Ricker (1975-81). Many of you who know John Ricker can appreciate that such a tribute will serve to recognize his long-standing contribution to teacher education in Ontario. This handsome portrait now hangs in the Auditorium of the Faculty as a tribute to his years of distinguished service and a reminder to us all of the tradition for which FEUT and previously OCE has long stood.

Once again my best wishes and warm greetings to you all.

John W. MacDonald

John W. MacDonald, Dean
Faculty of Education



Mrs. Olga Reed presenting Dean John Ricker with the faculty portrait.

PRESIDENT'S REPORT

I want to thank all of you who took the time to return the card enclosed in our June notice. We will try to act on your suggestions, especially those concerning more time given between notice arrival and meeting. Notices of meeting are sent from Alumni House. Despite my copy given to them the first week in May, they were unable to process our notice as the many activities associated with Convocation took precedence. The solution is to have our annual meeting early in May; please mark your calendar now for Thursday, May 8, 1986.

Our plans for 1985-1986 include three Newsletters: October-November, January-February, March-April. Your executive have concluded that we do more service to our members by keeping them informed of Faculty activities and alumni efforts in this manner than by any other means. If you have any points of view you wish aired or articles that would be of interest to our members, please forward them to me at 51 Southwood Drive, Toronto, M4E 2T8 or to Dr. Carol Hennessy, 371 Bloor Street West, Toronto, M5S 2R7.

Continued on Page 2

President's Report, continued from Page 1

Our first meeting takes place **Thursday, November 14 at 7:30 p.m. in Room 241 at the Faculty.** The topic "**Secondary School Funding**" will be addressed by a panel representing different points of view. Do plan to join us.

In October, we will attempt our second phonathon campaign as part of the Varsity Fund efforts. This year our need is great as we attempt to establish means of entrance and washroom facilities for the handicapped. We are counting on you to help us reach our \$100,000 target. Your financial support allows us to assist the various parts of the Faculty in their activities and give awards to outstanding students who join us in the teaching profession.

Every dollar that you direct to the Faculty is thoughtfully spent as we attempt to assist present-day students and to assure an on-going link with the graduates to the Faculty. It is a two-way process. The Faculty has a commitment to its graduates and they, in turn, have a responsibility to the Faculty.

Olga Reed, President.

YOUR EXECUTIVE

President.....Olga Reed
First Vice-President.....Bob Crowe
Second Vice-President.....Bill Reill
Treasurer.....Harry Barrett
Social Director.....Cora Preston
Secretary.....Francis Omoruyi
Faculty Representative.....Carol Hennessy

Chairmen of Committees:

Access to Opportunities
(for the disabled).....Gail Edgar
Phonathon.....Andrew Troop

TEACHER EDUCATION ADMISSION REQUIREMENTS

Teacher education admission requirements are often a classic model of the law of supply and demand and inflation. This is particularly the case in the preparation of elementary school teachers in Ontario. In the early 1950's a prospective elementary school teacher could go from grade 13 to a one-year teaching certificate course at a Teacher's College or from grade 12 to a two year course. Because of the high demand for teachers the first year after grade twelve could be taken in two summers with a year of teaching in between. As the supply of teachers increased the summer courses and grade 12 admission disappeared in the early sixties. By the early 70's one year of university work became a requirement. By the end of the 70's a university degree was needed and the task of elementary teacher education had moved from the teacher's colleges to the universities. With the declining demand for teachers in the early 80's and increased demand for admission to teacher education programs, because of general unemployment, it has become increasingly difficult for the holder of a three year degree to gain admission.

In addition to the effect of teacher demand on admission to elementary school teacher education, a development in university degree programs has had an increasing impact. This is the expansion of undergraduate degree programs into education related areas. The long established Physical and Health Education, Music Education and Child Study degree programs have been joined by degrees in Early Childhood Education and Exceptionality in Human Learning. In the last three of these the graduates have been found to be particularly well prepared to undertake the

Primary/Junior teacher education program. In the Faculty of Education, University of Toronto, they now constitute over 30 percent of Primary/Junior enrolment. In effect, in some thirty years, the academic cost for admission to Elementary teacher education has risen from grade twelve to a four year specialized university degree with a B average. It is interesting that, in a way, events have moved full circle, since the decision to become an elementary school teacher should, once again, be made at the end of secondary school.

Unlike monetary inflation, this form of academic inflation should be viewed as largely beneficial. The importance of the early years of formal education has long been recognized but a supply of highly qualified teachers has not always been available. It is fortunate that, at a time when those who work with young children are subject to increasing scrutiny by society, a more highly qualified professional teacher is now available in the classroom.

One problem with the development of the specialized undergraduate degree as a source for elementary school teachers is the very limited number of men enrolled in these programs. If those offering undergraduate programs in Child Study, Early Childhood Education and Exceptionality in Human Learning fail to attract more male students their potential for an important impact on elementary education will be reduced as will the benefits to be gained by academic inflation.

*Professor Gerald Whyte,
Admissions Officer of F.E.U.T.*

ACCESS TO OPPORTUNITIES (for the disabled)

This past summer I spoke with a professor about an Exceptionalities in Childhood course she gave to a group of 10 to 14 year-old children attending a summer lecture/sports camp at the university. Throughout the course, the children watched films about people with various disabilities and discussed the moral, ethical and social implications of disability in our society. The professor was appalled at the initial insensitivity expressed by these children with regard to the disabled. However, by the end of the course one student astutely remarked that the biggest handicap facing the disabled is peoples' attitude.

With the implementation of Bill 82 this September, many children will become more closely associated with disabled children. The attitudes of school age children will be shaped by the adults around them. For this reason, the development of a barrier-free environment at the Faculty of Education will encourage all education students to become more sensitive to the needs of disabled students, as well as allowing them to become acquainted with the abilities of handicapped individuals.

With this in mind, the Alumni Executive chose to stress ability rather than disability in selecting the name "Access to Opportunities" for the committee which I have been asked to chair.

The Committee's responsibilities are to 1) increase awareness of the problems encountered by disabled persons attending the Faculty, 2) provide access to both the building and course material, and 3) raise money to finance the provision of services. Achievement of the first two goals depends enormously on the success of the third. You can help by volunteering. We need people who have backgrounds in public relations, business, fund raising, or community service to serve on the Committee.

During the summer, a wheelchair lift was installed at the basement entrance just west of the main door on Bloor Street and both men's and women's basement washrooms were adapted to accommodate a wheelchair. A major adaption is needed to the freight elevator. The heavy, manually opened door presents difficulties for even an able-bodied person.

These alterations are expensive. The Committee needs your financial support.

A disabled body can trap the finest abilities and talents. Help us give someone access to success.

Gail Edgar, Chairman.

You can help your Alumni — By directing your Varsity Fund contribution to the Faculty of Education, you can make access for the disabled a reality.

THE MAKING OF AN ALUMNI: Convocation 1985



The Academic Processional enters Convocation Hall, led by Mr. B. Crowe



Chancellor G. Ignatieff welcomes Mr. M. Crowe as he receives his Bachelor of Education degree.



The B. Crowe family share their happiness in front of University College.

FACULTY OF EDUCATION AWARD WINNERS 1984-1985

AWARDS FOR EXCELLENCE IN SCHOLARSHIP AND TEACHING

These awards are presented to a graduating student in each area of specialization who has demonstrated academic excellence and teaching proficiency, and has made a special contribution to the activities of the Faculty.

AWARDS OF HONOUR

Primary/Junior Award of Honour..... Miss Battista Scalzitti
In honour of Dr. William Pakenham, Dean of the Faculty of Education, 1907-1934.

Junior/Intermediate Award of Honour.....Mr. Tom Peter
In honour of Dr. Bert C. Diltz, Dean of the Ontario College of Education, 1958-1963.

Intermediate/Senior Award of Honour.....Mr. Martin Galloway
In honour of Dr. W. Bryan, former President of the Ontario Secondary School Teachers' Federation.

AWARD FOR OUTSTANDING CONTRIBUTION TO THE LIFE OF THE FACULTY

.....Mr. Theodore Christoff
Presented in honour of Professor Jack Passmore, former Assistant Dean of the Faculty, 1973-1974.

DEPARTMENT AWARDS

The Leighton McCarthy Memorial Scholarship
(Institute of Child Study)

Early Childhood Education.....Mrs. Kimberley Dell Powell

Childhood Assessment and Counselling.....Miss Mariette Jeanne LeBlanc

The Morgan Parmenter Memorial Scholarship
(Counsellor Education Department).....

Mrs. Adrienne Johnson

The P.A. Petrie Huron County Scholarship
(Mathematics and Science Departments).....

Mr. Gerard Gorman

The R. Darrell Phillips Memorial Award

(Technical and Industrial Arts Departments).....Mr. Dunstan Morey

The Alexander P. Seggie Memorial Award

(Business Education Department).....Mr. Alvin Samsa



Mr. T. Christoff, recipient of the Award for Outstanding contribution to the Life of the Faculty, holding his bronze sculpture.

MOVING? Name Change?

Please let us know by notifying:

Alumni House
47 Willcocks Street
University of Toronto
M5S 1A1

Include FEUT and year of graduation.

Faculty of Education Alumni News

Published by the Faculty of Education Alumni
Association of the University of Toronto

President

Olga Reed.....694-7574

Faculty Representative

Dr. Carol Hennessy.....978-3434

HOMEcomings '85

- Float Parade, 11 am, Hart House Circle
- Lunch, 12 noon, Great Hall, Hart House
- Football, 2 pm, Toronto vs. Waterloo, Varsity Stadium
- Meet the Blues, post-game, SAC Pub

Everything
ready for Saturday,
October 19th.
Please come
home!



TO: ALUMNI OF
THE UNIVERSITY
OF TORONTO

First Class Première classe

SUMMING UP

BY ED BARBEAU

AN HOUR WITH MR. PYTHAGORAS

The general solution of the pythagorean equation $x^2 + y^2 = z^2$ in integers x, y, z is given by

$$[k(m^2 - n^2), 2kmn, k(m^2 + n^2)]$$

where k, m, n are integers. The three solutions given for the equation $x^3 + y^3 + z^3 = w^3$ are particular instances of the solutions

$$[x, y, z, w] = [q^3 + 1, 2q^3 - 1, q(q^3 - 2), q(q^3 + 1)]$$

where q is an integer. This general form was given by E. Mathon and V. Kadarnauth, both of Toronto. However, in this case, not all the solutions are exhausted by the formula.

K. Williams of Ottawa and A.W. Walker of Toronto both provided verifications of the equation

$$651^4 = 240^4 + 340^4 + 430^4 + 599^4.$$

$$\text{Williams sent in the equation } 353^4 = 30^4 + 120^4 + 272^4 + 315^4.$$

The final 1984 issue of the *Mathematical Intelligencer* contained the equation

$$144^5 = 27^5 + 84^5 + 110^5 + 133^5,$$

which dates back to 1966 and settled a long-standing question as to whether an integer fifth power could be written as the sum of fewer than five integer fifth powers.

DISCOVERING PATTERNS

1 1, 9, 36, 100, 225, 441, ... Each entry is a perfect square, and the differences between successive square roots are the natural numbers. Alternatively, the terms of the sequence give a running total of the cubes $1^3, 2^3, 3^3, \dots$. The next three terms are 784, 1296, 2025. Looking at the terms of the sequences in these two ways leads us to the identity

$$(1 + 2 + 3 + \dots + n)^2 = 1^3 + 2^3 + 3^3 + \dots + n^3$$

for each natural number n . Now $(1, 2, 3, \dots, n)$ is not the only set of numbers the sum of whose cubes is equal to the square of the sum. Here is how to find other such sets. Pick any number; for example, 20. Write down all of its positive divisors, and for each, the number of its divisors: 1(1), 2(2), 4(3), 5(2), 10(4), 20(6). These latter numbers make up the set we want. Thus,

$$(1 + 2 + 3 + 2 + 4 + 6)^2 = 324 = 1^3 + 2^3 + 3^3 + 2^3 + 4^3 + 6^3.$$

2 1, 1, 2, 5, 14, 42, 132, 429, ... To give you the idea of formation, here is how the term 42 is formed from its predecessors: $42 = 1 \cdot 5 + 1 \cdot 2 + 2 \cdot 1 + 5 \cdot 1$ (dot denotes multiplication). The next term should be 1430. A second way of forming the terms gives, for example, 5 as $6 \cdot 5$ divided by $2 \cdot 3$ and 42 as $8 \cdot 7 \cdot 6$ divided by $2 \cdot 3 \cdot 4$. The

first rule was found by G.C. Baker and the second by, independently, Baker, S. McDowall and W. Karpinski. Karpinski also discovered that, if we let $x(n)$ be the n th term of the sequence, then

$$1 + 24 \left[\frac{x(n-1)x(n-2)}{x(n)x(n-2) - x(n-1)^2} \right]$$

is always the square of $2n-1$. However, there is a dissenting opinion put forward by A.W. Walker, J. Levitt and J. McCallum, who put the next term as 1429. Walker, for example, noted that the terms given satisfy the recursion equation

$$x(n) = 6x(n-1) - 9x(n-2) + x(n-3) + 1 \text{ when } n \geq 4.$$

3 3, 5, 13, 85, 3613, ... J. Baxter, W. Goodman, J. Levitt, W. Sayers and K. Tam noted that each term after the first is obtained by squaring its predecessor, adding 1 and dividing by 2. The next term is 6526885. S. McDowall and J. McCallum, using another law of formation, also obtain this number as the next term. Some readers may recognize each adjacent pair as the first and last members of a pythagorean triple: (3, 4, 5), (5, 12, 13), ...

4 1, 6, 35, 204, 1189, ... Several readers observed that each term past the second is six times its predecessor minus the one before. D. Guest and W. Karpinski noted that

$$x(2n+1) = x(n+1)^2 - x(n)^2,$$

and Karpinski that

$$x(2n) = x(n)[x(n+1) - x(n-1)].$$

Each term of this sequence is the product of corresponding terms of the two sequences: (1, 2, 5, 12, 29, 70, 169, ...) and (1, 3, 7, 17, 41, 99, 239, ...) whose laws of formation will be left to the reader along with the task of finding notable properties (for example, add the squares of two adjacent terms).

5 11, 34, 17, 52, 26, 13, 40, 20, ... Each term is obtained from an odd predecessor by adding 1 to its triple and from an even predecessor by dividing by 2. The continuation is 10, 5, 16, 8, 4, 2, 1, 4, 2, 1, ... There is a notorious conjecture that if we start with any number in place of 11 and form a sequence by the same law, the sequence will always eventually settle down to the 1, 4, 2, 1 cycle.

6 1, 3, 4, 7, 11, 18, 29, 47, ... Each term past the second in this sequence is the sum of its two predecessors. W. Karpinski pointed out some interesting connections between this and the Fibonacci sequence 1, 1, 2, 3, 5, 8, 13, ..., $f(n)$, ..., including, for example, $x(2n+1) = x(n+1)f(n+1) + x(n)f(n)$. ■

PRESIDENTS' COMMITTEE



Norman and Dixie Jewison (left) and Morton and Carol Rapp at the reception before the dinner

THE PRESIDENTS' COMMITTEE DINNER

A medieval feast in the Great Hall of Hart House honoured members of the 1984 Presidents' Committee. The banquet, with a menu in Old English, began with Salmon Fressh Boiled with Sawse and ended with a Lyte Pudyng. Entertainment was provided by the PLS, Poculi Ludique Societas, the University's medieval drama group. President George Connell expressed the University's appreciation for the more than two and a half million dollars given by the members.

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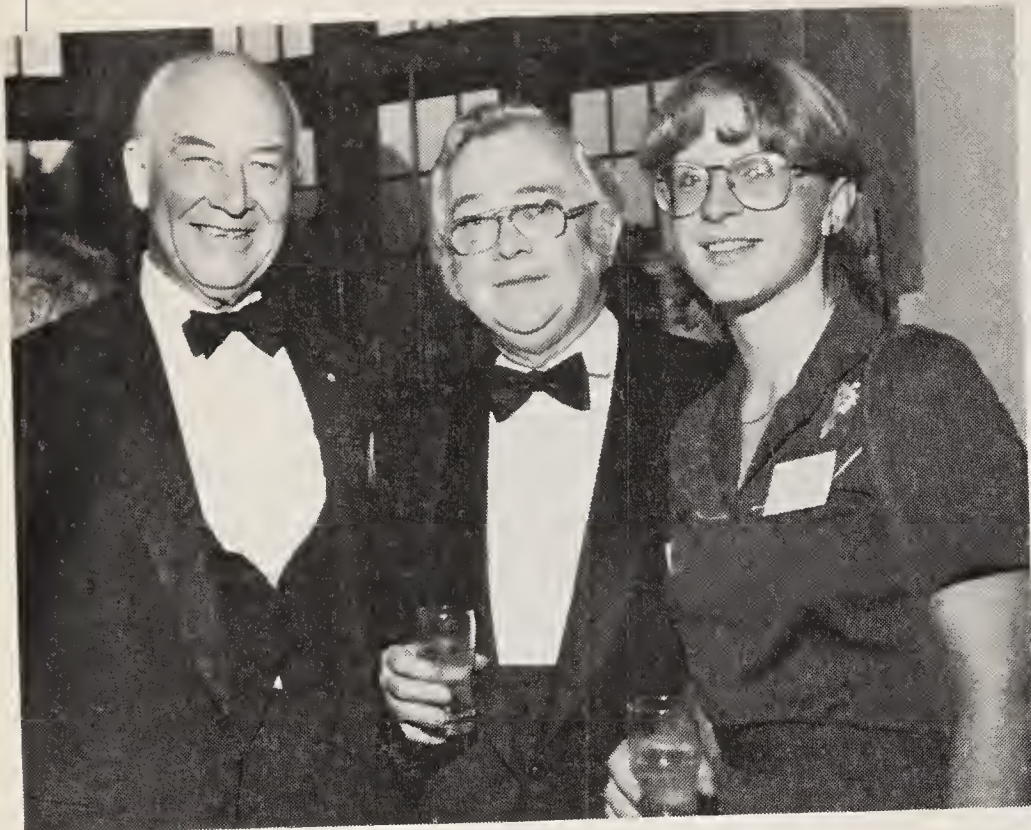
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Facing page: J. Tuzo Wilson (left), Josef Skvorecky and Zuzana Novotna; Sheila Connell (left) and Nora Vaughan

James Burke (left), Helen Hare and Geraldine Heffernan; Margaretta Drake came from Winnetka, Illinois, to attend the dinner

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Fay Loeb
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Nona Macdonald
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Prof. William A. MacKay

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Wallace Crawford Macpherson
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Paul E.P. Martin
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Dorothy McGillivray
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Malcolm F. McGrath
Thomas P. McIver
William F. McLean
W. James McMahon
Mackenzie McMurray

Sydney S. McMurray
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Robert Salter (left) and John Vitali; Lap Cheung Lee and Maria Lee with Lee MacLaren (right)

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Gertrude J. Quinlan
(deceased)

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Flavia C. Redelmeier
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Jennings D. Young
Dr. S. Irving Young
Kam Chiu Yu

Z

Liz Zetlin
Adam H. Zimmerman
Prof. Walter Zingg

and others who prefer to remain anonymous

REVIEWING THE TROPE

BY JOAN LENNON

'PUBLISH OR PERISH,' THEY SAID.
'WRITE — OR ROT.'
THUS A MINOR WORK IS BORN

There she was in her office at 10:00 p.m., leaning into the pool of light thrown by the angle-poise, burning, as it were, the midnight oil at both ends. A brilliant teacher? She thrust the thought aside, irritably, and concentrated on the task in hand. "Publish or perish," they had said to her. "Write — or rot." So she had decided to write a critical review for a prestigious academic journal, a study of some of that very modern poetry — it was broad-minded of her, incisive, brave even, to tackle what so few had fully grasped, though a bit of a loss at dinner parties. Nevertheless, here it was:

"A Review of Ms. Parker's A Slim Volume of Nasty Valentines and Other Unpleasant Verse for Special Occasions (Mississauga: Pauper and Son Pub. Ltd., 1985. 111 pp \$14.95 ISBN XYZPQ)"

by A. Sue Donym, B.A., M.A., Ph.D., All-Round Nice One

Its opening paragraph was characteristically direct. Not a blade of grass was to be beaten about, let alone a bush.

WHO AMONG US (IT BEGAN) WHO AMONG THOSE OF us who review has not set pen to page with the clear intention of, first and foremost, ferreting out the identity of the author whose works we would elucidate? *I* am not innocent — are *You?* or *You?* To which you may reply, Ah but is not Ms. Parker a hitherto unknown and possibly pseudonymous name on the bourne of popular poetry? Yes. I grant you. She is. Yet, my friends, to tread the weary maze of biographically-grounded literary analysis with respect to *THIS Slim*



Volume would be to founder, if I may so express myself, on an illusory reef. To what avail? Not, I would propose, a lot.

My intentions are otherwise. My wish is to lay before the discerning reader a literary plait, comprising, on one level, of her (or him) self, myself, and "Ms. Parker"; and on another, less tactilely-remote plane, to offer a weaving together of verse, commentary, and intervening white page, a wholly Trinity of critical experience reverberating on and through pressed wood-shavings.

That the volume is "slim" in one sense is undeniable and unworthy of denial, as it is averred in both title and breadth. That it is "slim" in any other sense is utterly deniable. "No!" I say, "In any other sense IT IS NOT SLIM!!" Let me offer an example:

The occasion is a birthday, that penultimate to the quarter century; the atmosphere, tense, anguished, piquant; the poem, the commemorative verse — but I transcribe:

Tears and moans will not belie
The fact that twenty-four is nigh
Give me the money you'd spend on a gun
And I'll tell the world you're twenty-one.

(p.23)

The sceptic, though staggered, may very likely respond by asserting that I have creamed the cream, that a single swallow doth not an entire book of poetry make. "In no

way," I reply, "by no manner of means." All occasions elicit a similar singular quality — the mighty panorama of life and death, love and merry-making, festivity and funereality, romp across the reading eye's horizon, page after page. A rapid thumbing action, followed by transcription, produces:

The course of true love ne'er ran smooth
I send this verse to you to sooth
Away your sad and troubled care —
Go wash the blood out of your hair.

(p.14)

and

I want to be your Valentine
I want to drop you in the slime
In among the frogs and snakes
And throw at you red heart-shaped cakes.

(p.36)

or

Sorry to hear your mum has died
Did you consider cyanide?
The way you chose I'm sure was quicker
But it's hard to clean out a cement mixer.

(p.38)

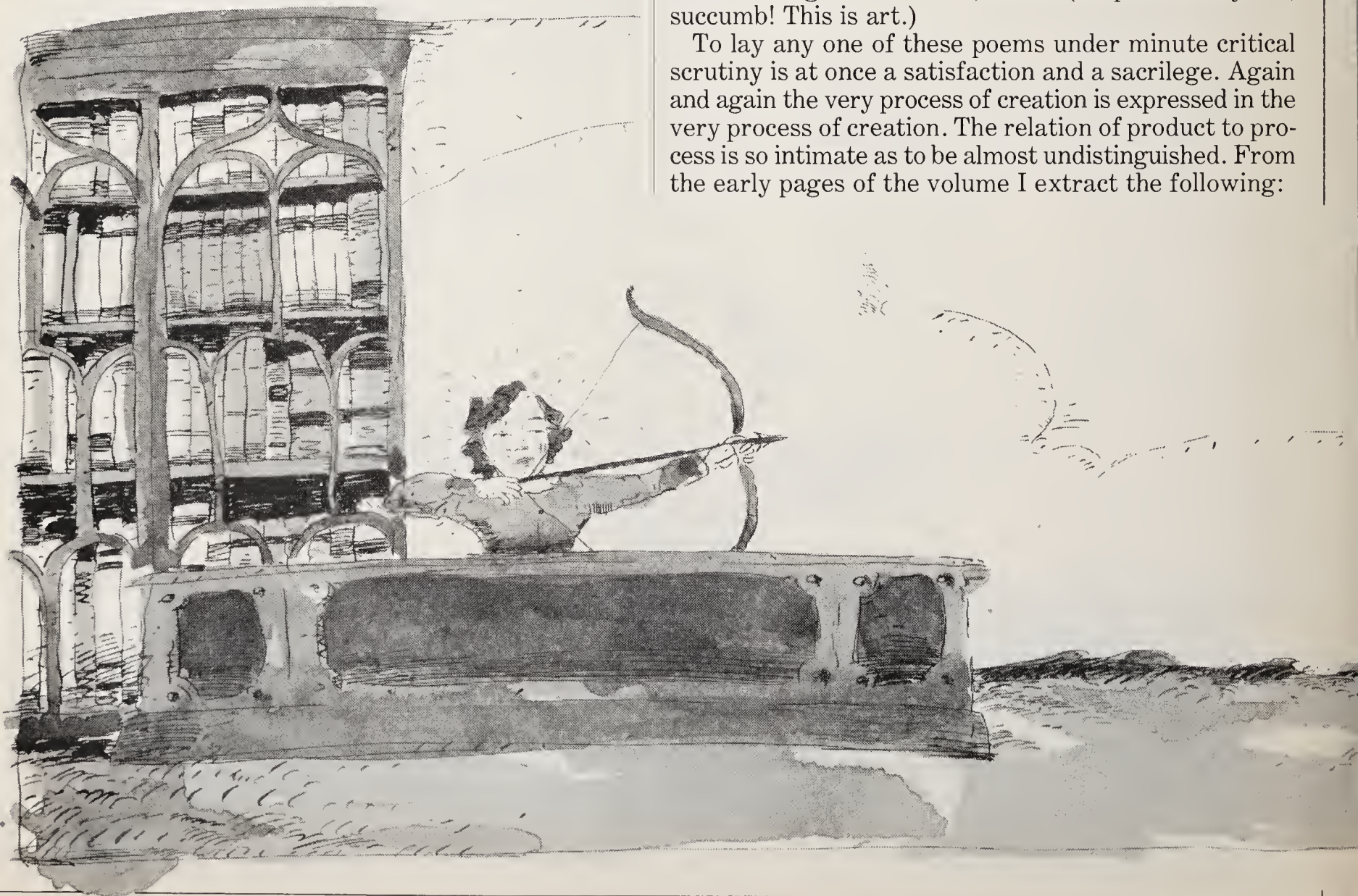
and again

Your present was such a surprise
It was trained to go straight for the eyes.
I held it at bay
All through Christmas day —
You don't like me, am I to surmise?

(p.97)

And I could go on — indeed, I shall. (Sceptics and cynics, succumb! This is art.)

To lay any one of these poems under minute critical scrutiny is at once a satisfaction and a sacrilege. Again and again the very process of creation is expressed in the very process of creation. The relation of product to process is so intimate as to be almost undistinguished. From the early pages of the volume I extract the following:



Now Christmas-time has come around
I'd like to beat you in the ground
I'd like to break your little head
And decorate you when you're dead.

(p.5)

The ineluctible impetus of the earth's ("a-round") trajectory both around the sun (son) and around its own centre ("in the ground") is invoked in the first couplet, and then brilliantly counterpointed in the second and closing couplet by an evocation of the creation process whereby life comes out of death. In toto it is a stunningly simple explication of the proverbial paradox which states: "You can't make an omelette without breaking a few eggs." This kind of commentary on our folk heritage, unashamedly ensconced in the livery of "popular" verse, speaks volumes for the heartiness of the new poetic generation.

Which is not to say that the genius of this work is an entirely backward-looking one. No, indeed. Consider, for example, the futuristic extra-nihilistic joie-de-vivre of the poem entitled "Oh, when the bombs begin to fall." It offers a kind of eschatological fearlessness, an eagle-eyed capacity to brave the vision of a flaming world and perceive its still small whirlwind of human significance, that moves the reader, and the reviewer, to cry "Hear, hear!"; *and mean it.*

Oh, when the bombs begin to fall
And angels come and us do call
I'll hold you close and tell you true
I never really did like you.

(p.73)

A survey of opening lines may also serve to elicit some of the particular flavour of the work — "You've had a baby! Oh how crude!" (p.18), or "If only Frank, before he died" (p.56), or "To one who's aging fast each day" (p.32), or "Life is misery, dark and drear" (p.46). And yet clearly, nothing can replace the experience of the volume as a hole. Two last samples, dear reader, before we part.

What a lovely meal you've made
But *Joy of Cooking* you've betrayed.
This gob of bright green slime's okay
But why does it blink at me that way?

(p.24)

Why, indeed? Is that not the human question, fortissimo?
And finally, in celebration of the tender passion:

For your wedding I would like
To buy you both a tandem bike
And stick your heads between the spokes
Then pedal fast, and tell lewd jokes.

(p.58)

Can more be said? Need more? No.

She smiled; leaned back in in her chair. "No," she thought. "No, indeed." ■

Joan Lennon, B.A. (Victoria 7T6), M.A. (English 7T8), Ph.D. (English St. Andrews '84) is a writer living in Newport-on-Tay, Scotland. The poems were written during their student days at U of T by Joan Lennon and two friends from New College — Gerald Oxford, B.Sc. (7T4), B.A. (8T0), and Ruth Guzner, B.A. (7T7).



TOIKE OIKE, SKULE & OTHER FEATS OF ENGINEERING



Thus, you see, gentlemen, that our Society is in its fourth year. It is firmly established here and will last as long as there is an Engineering Course in the University of Toronto.

Thus, in arranging our plans for the future, we must take into consideration that they will benefit not only ourselves, but the next few generations that are going to follow us here. Think of what value and interest these papers and periodicals will be one hundred years hence!

H.E.T. Haultain

*Opening address to Engineering Society
1888-89*

BARRY LEVINE (8T4) WOULD BE THE first person to agree with Haultain's prophetic remark. Levine spent most of the year following his graduation from industrial engineering researching, writing, typesetting, proofreading, designing and publishing *A Century of Skill and Vigour*, a history commemorating the 100th anniversary of the Engineering Society.

In it he has revealed some of the mysteries that have plagued artsies (and probably some engineers) for years. What does that war cry Toike Oike really mean? What is Lady Godiva's relationship with engineers? Where did they get that cannon? And don't they know better than to spell skule that way?

The 74-page book traces the beginnings of the Engineering Society in November 1884, through two world wars, a depression, four cannons and the burning and restoration of the Sandford Fleming Building to the present day. Levine's text accompanies verbatim reports from contemporary sources and a generous selection of photographs and artefacts.

"I spent a good part of last summer in the archives," explains Levine. "All the original material I found made the book easy to do. I quickly realized there was no point in rewriting it. The big problem was the photos. Up to the '60s most of them are taken from publications. There's a fairly high percentage of recent photos."

The book was published in time for distribution at the crowning event of the year's centenary celebrations. On June 1, more than a thousand engineers and hangers on gathered at the Royal York Hotel to reminisce, reunite and listen to Canadian astronaut Marc Garneau.

Earlier that day Garneau unveiled a plaque commemorating the 100th anniversary on King's College Road close to the place where the old School of Practical Science, the Little Red School House, stood.

"We will probably not see another engineering event like this in this century," says Malcolm McGrath, assistant to the dean.

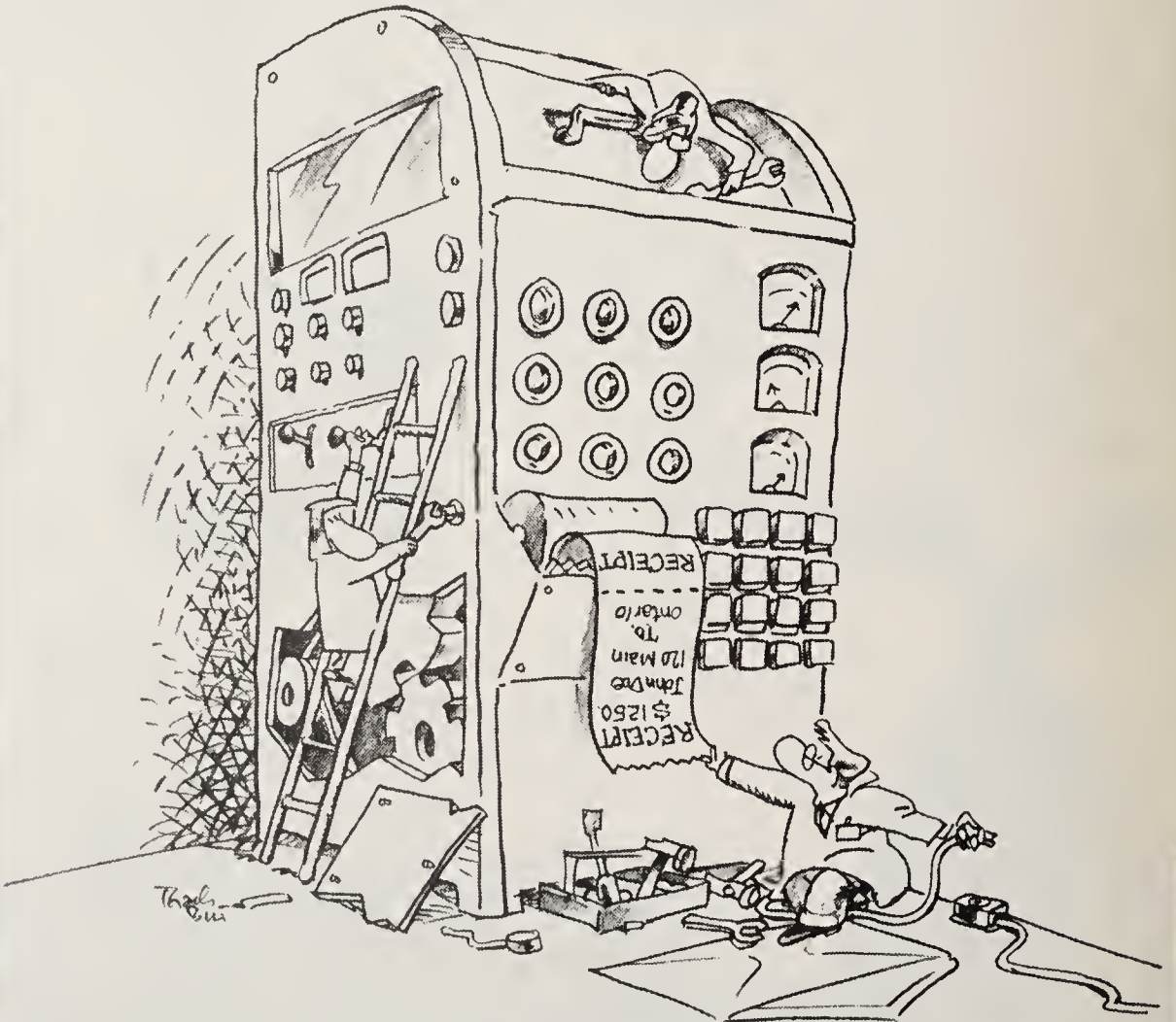
By the way, for those of us who have always wondered, according to Levine the words Toike Oike don't mean anything at all.

Copies of *A Century of Skill and Vigour* are available for \$15 from the Engineering Stores or from Malcolm McGrath, Office of the Dean, Faculty of Applied Science and Engineering, University of Toronto, Toronto, M5S 1A1 (978-4941).

ON THE MOVE FOR 15 YEARS

WHEN KAY RIDDELL (VIC 2T9) LEARNED that her former colleagues and friends from the International Student Centre were planning a reunion in her honour, she decided to publish her informal history of the centre. The centre's first director, Kay wrote her "book of memories" as she calls it, on her retirement in 1971. Since then it has been languishing in the University's archives. At the reunion on May 26, *International Student Centre — How it all began* was launched to the receptive approval of the 170 people who attended.

ISC began in 1951 when Catherine Steele (Trinity 3T2), chairman of Friendly



"Terrific! Now we can print receipts and mail The Graduate. What's next on the list?"

The new Private Funding/Alumni Affairs information system is up and running. Well, maybe jogging. Some of the things you receive from us will look a little bit different; some of them may just be wrong. Please bear with us during this period of fine tuning.

Relations with Overseas Students (FROS), and Kay started the first U of T office in the Lillian Massey Building at the corner of Bloor Street and Queen's Park. For the next 15 years, FROS, later the ISC, led a precarious existence, moving from location to location, always just a step ahead of the wrecker's ball. The history of the ISC's many moves is also the history of the St. George campus as we know it today.

In 1960 the peripatetic nature of the ISC caught the sympathy of local Rotarians, who launched a \$300,000 fund-raising campaign to provide a permanent home for the centre. Kay's history recounts the enthusiastic and successful efforts of Rotarians and students. By 1964, enough money had been raised but once again progress intervened. The site originally slated by the University for the centre was now needed for the Robarts Library. With an international convention of Rotarians on his doorstep expecting the turning of the sod, then President Claude Bissell devised a novel solution.

"On June 9, a crowd of eager Rotarians and loyal students gathered in the hot sun in a roped-off area on Huron Street to listen to speeches by Dr. Bissell and the Texan chairman of Rotary International pledging solidarity and goodwill in the years to come! No one seemed too concerned that the newly turned sod bore no relation to any actual site!"

Finally, in November 1966, the ISC moved into Cumberland House at 33 St. George Street just north of College. Magnificently restored by architect Eric Arthur, the house has been home to the ISC ever since.

"We had the cream of the campus working with us," Kay recalled recently. "Three University presidents supported us. Mary Ham met Jim on our committee. A lot of exciting things happened."

"There is far less faculty involvement now than there was in the early days," says current ISC director Elizabeth Paterson. "We would welcome more faculty participation. I was interested to note in the book that some of the original programs have continued almost unchanged, like the International Festival and the travel program. Others that were offered informally have developed into well established programs. For instance, our English-as-a-second-language program grew out of the foreign wives' program."

"But the major changes between the early days and now have been beyond our control. The federal government tightened up work permit regulations and the provincial government has instituted and increased differential fees for foreign students. Our role has become a lot more political. The environment has changed,

the number of students has changed, the problems have changed.

"There's always a battle to fight or something to tackle. That's what makes it such an interesting place."

Copies of *International Student Centre — How it all began* can be ordered for \$5 from Kay Riddell, 86 Duplex Avenue, Toronto, M5P 2A4, or from Barbara Smith, 139 Barton Avenue, Toronto, M6G 1R1.

UTAA'S NEW PRESIDENT IS RESOURCEFUL

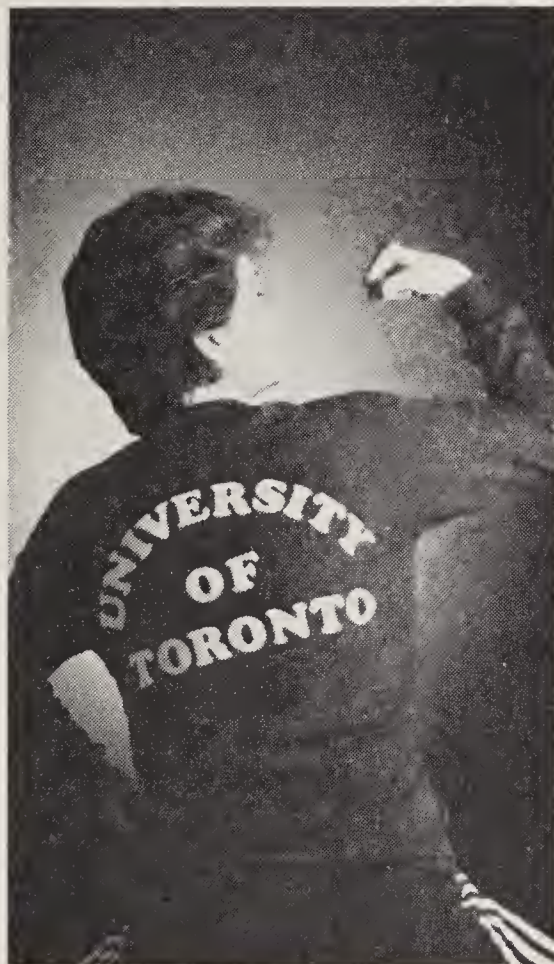
"I'M NOT GOING TO GO IN ON A WHITE charger and say here's what's got to be done and damn the torpedoes," says new UTAA president Ted Wilson. "I'd rather mark off the things we get done as we go along."

That realistic attitude is characteristic of Wilson's approach. After graduating

from the Faculty of Forestry in 1959 with a B.Sc.F., Wilson entered the Ontario civil service, where he has held a number of forestry management positions. He returned to U of T to receive his graduate diploma in resource management in 1969 and his master's degree in planning and economics in 1970. Since 1976, he has been director of Indian Resource Policy in the Ministry of Natural Resources.

Wilson's job involves extensive travel to remote parts of the province to negotiate such issues as Indian land claims and aboriginal treaty rights. "Most people think of Moosonee as far away," he explains. "Often it's only half way to my destination. It's a very big province."

Wilson has been an active alumni volunteer since 1970, serving as the Forestry Alumni Association president and representative to the College of Electors and, on the UTAA, as chairman of branch liaison and community affairs and as vice-president, fund raising. The latter position also involved a stint as vice-



ISN'T THAT JAN TENNANT?

YES, THE ATTRACTIVE, FAMILIAR AND unidentified woman gracing this year's Varsity Fund brochure is broadcaster Jan Tennant. Appropriately, Tennant,



a 1958 physical and health education graduate, appears flexing her muscles in a U of T sweat suit on the front of the brochure and in her incarnation as Global TV's newscaster on the back.

Just so she wouldn't forget us, we gave her the sweat suit.

chairman of the Varsity Fund.

Wilson is pleased that 1985-86 marks the first year of independent financing for the UTAA. The directorate made the decision in the spring that participating constituencies will no longer be assessed an annual fee.

"Our funding will now come from our successful marketing efforts," says Wilson. But he does see an area where the constituencies can make a significant contribution.

"The constituencies need to do a better job at keeping track of their alumni and keeping their addresses up to date," he suggests. "That's a responsibility that should be in the bailiwick of the individual colleges and faculties."

COUNCIL COMMUTER FROM WASHINGTON

TWO ENGINEERS, MILLER ALLOWAY (4T5) and Paul Cadario (7T3), will take their seats as alumni governors when Governing Council reconvenes in September.

Elected by the College of Electors in May, they will serve three-year terms to June 1988.

For Cadario, it will be his second term. He served as a student representative on the first Council in 1972-73.

"That first year was very much a honeymoon period," he remembers. "Council was conscious of its role as a policy making body and didn't try to tell the president how to run the place. Over the years there seemed to be a tendency to get involved in management, in more mundane issues like financing and personnel. I think now we have swung back to the original role. I find that a healthy trend. We've gone back to taking an interest in the University's place in society, to looking at its broader mission. I am hopeful that in the next three years we will get the University ready to face the year 2000."

Cadario's experience should help to realize that goal. After graduating from engineering in 1973, he went to Magdalene College, Oxford, on a Rhodes scholarship to study philosophy, politics and economics.

"I learned about how to do things and then decided to learn about why," he explains. He joined the World Bank in Washington, D.C., in 1975, where he is now a senior loan officer responsible for the definition and execution of the bank's loan policy with Guinea. Cadario is currently president of the U of T alumni branch in Washington and vice-president of the Associates of the University of Toronto Inc. As an out-of-town member of Council, Cadario has made a commitment to make monthly visits to Toronto during his term.

"As I told the College of Electors, serving on Governing Council is important to me as an under-35 alumnus and an out-of-towner," he explains. "It's going to cost me a lot of time and a lot of money but I decided it was worth it."

Oshawa native Miller Alloway graduated with a B.A.Sc. in 1945. He has been engaged in the graphic arts business since 1950 and is currently president and chief executive officer of Cairn Capital Inc. as well as chairman of Maplex General Insurance Company. Throughout his career, he has been active in professional organizations and held the position of president of the Graphic Arts Industries Association, 1970-72.

Alloway has had extensive involvement with a range of volunteer organizations, serving on the North York Hospital Board and the United Way and as chairman of the Africa Inland Mission (Canada) Inc., an agency which provides support to 450 missionaries in hospitals, schools and agricultural projects in East Africa.

"What I began to feel was that the University of Toronto as my Alma Mater had a significant role in the level of success I've had in business," Alloway says, explaining his interest in serving on Governing Council. "I owe a debt to U of T for having enhanced substantially my capability to contribute more to the community and be more competent as a person than I might otherwise have been."

"I see the University as the key to the ongoing quality of life we have. It has reached the point of no return in trying to reduce the cost side of the ledger; now we need to address the revenue side. We need to find new sources of money and to spend it wisely. I want to make sure that oncoming generations have the same opportunities the University gave me."

Other alumni members on Governing Council are Eric Hardy (U.C. 4T2), Burnett Thall (M.A.Sc. 4T7, Ph.D. 4T9) and Joanne Uyede (Innis 6T9), whose terms expire in 1986, and Dorothy Hellebust (Vic 5T8, M.A. 5T9), Brian Hill (Scarborough 7T8) and Gordon Romans (Vic 3T3, M.A. 3T4, Ph.D. 4T2), who will serve until 1987.

National Universities Week '85 October 19 to 27

Special events on all three campuses will include

a tour of the St. George campus with Donald Jones, historical writer of the *Toronto Star*, on Sunday, Oct. 20, starting from Trinity College at 2 p.m., tickets required. (If weather inclement, postponed to Nov. 3.)

Professor Jonathan Spence, Yale University, who will give the Snider lecture on modern China's struggle with its past on Monday, Oct. 21 in the Council Chamber at Erindale at 8 p.m.

the Donald Creighton Memorial Lectures. William Hardy McNeill, professor emeritus, University of Chicago, will give three lectures on world history, Monday, Oct. 21 at 8 p.m. in West Hall U.C. and Wednesday and Thursday, Oct. 23 and 24 at 4 p.m. in room 3 of Northrop Frye Hall at Vic.

a lecture on "The University in Today's Society" by the Hon. William G. Davis on Tuesday, Oct. 22 at 8 p.m. in the auditorium of the Medical Sciences Building to launch Showcase, a series of six lectures about research at U of T organized by the School of Continuing Studies. The series will run from November to February and speakers will describe their work on the impact of pollutants on ecosystems, approaches to recovery following brain damage, the Dictionary of Old English, Soviet politics, bioengineering and health research and Canadian history. There will be an opportunity to talk with the speaker following each lecture. Fee for the six Showcase lectures is \$150 and receipts for income tax purposes will be issued. Proceeds from Showcase, which will be presented annually, will be donated to the Research for Living Award to be given each year to a graduate student on the basis of research potential.

the Hon. Stephen Lewis, who will give the Watts lecture at Scarborough, how to stop worrying and learn to love the U.N., Sunday, Oct. 27 at 2 p.m. in the Meeting Place.

For more information and a brochure about these and other National Universities Week events, please write to Information, Alumni House, 47 Willcocks Street, University of Toronto, Toronto, M5S 1A1, or telephone 978-2021.

A PHOENIX NOT A DODO

I FIRST MET FATHER JOHN KELLY IN THE fall of 1973 when we both served on the committee organizing a conference titled "Phoenix or Dodo: the future of the federated colleges". The conference was an alumni response to the negotiations which resulted in the 1974 Memorandum of Understanding between the federated colleges and the University, the first time in living memory the graduates of St. Michael's, Victoria and Trinity had co-operated in a common cause.

The happy fact that the colleges proved themselves more likely to rise from their ashes than to yield to extinction owes a lot to the vision of Father Kelly. As president of St. Michael's and then as its alumni director, he never compromised his idea of what the college and the university meant. His articulate defence of his ideals has been an inspiration not only to St. Mike's graduates but to all of us who worked with him on the UTAA, the Varsity Fund and staff and faculty committees.

Father Kelly retired in July. Although his efforts on behalf of his beloved St. Michael's were no less vigorous, his health has failed over the past couple of years. We hope his retirement will give him the chance to pay some attention to himself as well as to the college. Certainly, it gave his colleagues and alumni the chance to tell him how much he has meant to us. At several small events, the people he has worked with over the years expressed affection, admiration and respect. What we didn't do was say good-bye.

Father Kelly will continue as honorary director of the St. Michael's College Alumni Association and as a representative to the Varsity Fund. He will keep an office in Alumni Hall where people like me who need advice can find him.

Father Kelly's successor as alumni director is Father Robert Madden (5T2). He has been associated with St. Michael's for 33 years and has been a member of the English department since 1963.

KEEP YOUR EYE ON THE COACH

FROM OUR SPORTS DEPARTMENT: THE Department of Athletics and Recreation announced this summer that Paul Titanic will coach the Varsity Blues hockey team for 1986. Titanic, who received his bachelor of education in 1984, joined the Blues as assistant coach

in 1983 when they won the Canadian university championship.

Titanic replaces Tom Watt, who is now coach of the Vancouver Canucks. Watt has had a lengthy history with the Blues, dating from the late '50s when he played left wing. Watt graduated from the School of Physical and Health Education in 1959, from the Ontario College of Education in 1960 and from the Faculty of Education in 1969 with an M.Ed. He was head coach of the Blues for a total of 15 seasons, 1966-79 and 1985. During that time, his teams won 11 Ontario collegiate championships and nine national championships. He is the only coach to have been named coach of the year in both Canadian university hockey (1971) and the National Hockey League (1982).

Watt was lured to Vancouver by former Blues teammate Harry Neale (Vic 6T0), who was general manager and head coach of the Canucks. Neale is now head coach of the Detroit Red Wings.

Finally, Mike Keenan, who played for Watt on the national championship team of 1973, and coached the Blues to their tenth national title in his only season as head coach in 1984, made an auspicious debut in the NHL last season. After leading the Philadelphia Flyers to the best overall regular season record and to the Stanley Cup finals against Edmonton, Keenan won the NHL coach of the year award.

AUTUMN LEAVES

IT'S THE SEASON OF MISTS AND MELLOW fruitfulness and book sales. Trinity's tenth annual sale will take place Oct. 23 from 7 to 10 p.m., Oct. 24 from 11 a.m. to 9 p.m., Oct. 25 from 10 a.m. to 5 p.m. and Oct. 26 from 10 a.m. to 2 p.m. There is an admission charge of a dollar on opening night. Call the college's Office of Convocation at 978-2651 for information or book pick-up.

Following close on its heels will be the University College sale on Nov. 9 from 10 a.m. to 4 p.m., Nov. 11 from 10 a.m. to 6 p.m. and Nov. 12 from 10 a.m. to 2 p.m. For information or book pick-up, call 978-2968.

Engineering is holding its third annual mammoth open house on Saturday, Sept. 28 from 10 a.m. to 5 p.m. Everyone is welcome. Call Malcolm McGrath at the faculty at 978-4941 for more information.

Scarborough is selling four limited edition prints by three artists who are also studio instructors in the college's fine art pro-

gram. The etchings and lithographs are by Don Holman, Janis Hoogstraten and Alison Brannen and range in price from \$250 to \$350 unframed and from \$320 to \$455 framed. Proceeds from the sale of the prints will go toward the renovation of Scarborough's fine art and music studios. To find out more call Doreen Marks at 284-3232.

"Anne Rochon Ford's spirited account of some of the people and events from those early years is an entertaining blend of respect, affection and a nice dash of irony," writes President George Connell of *A Path not Strewn with Roses*, the official history marking the 100th anniversary of the admission of women to the University. The 96-page book is available through the Bookroom.

We inadvertently omitted the names of three members of the Taddle Creek Society in the Varsity Fund Annual Report in the May/June *Graduate*. Our apologies to J.G. Hanley, M. Cynthia Heidenreich and Tennys Reid as well as to any others not brought to our attention.

Unclaimed Diplomas

If one of the many unclaimed diplomas in the Office of Academic Statistics and Records, eighth floor, Robarts Library, is yours, why not pick it up or have it sent to you by registered mail?

If you pick it up, you will need identification; if you send someone, please provide a letter of authorization.

If you write, address your letter to: Diplomas, Office of Academic Statistics and Records, University of Toronto, Toronto, M5S 1A1, and enclose a certified cheque or money order for \$6.50.

All of the following information, typed or printed, is required: your graduation name; address; date of convocation; degree; faculty or school and college if applicable; student number. If your name has changed since graduation, please provide some proof of your former name.

All November/December 1983 diplomas not picked up will be destroyed on December 2, 1985. A replacement fee, currently \$30, will be assessed after that date.

MANDATORY RETIREMENT SEEN AS DISCRIMINATION

IS MANDATORY RETIREMENT ILLEGAL discrimination? A senior librarian at U of T and a professor of curriculum studies at the Ontario Institute for Studies in Education are challenging the University's policy of retiring employees at 65. Professor Chester Carlow has launched a grievance through his union, the OISE Faculty Association, and Ritvars Bregzis, the librarian, has begun a court action against U of T. They are arguing that under Section 15 of the Charter, in effect since April 17, age is a prohibited category of discrimination.

In an effort to test the applicability of the Charter to retirement policies, the Ontario Confederation of University Faculty Associations is sponsoring Bregzis's suit and the Canadian Association of University Teachers has taken on another test case, that of York sociology professor Bernard Blishen. The two will be merged if it becomes apparent that the differences between certified and non-certified faculty associations are not legally significant with respect to mandatory retirement.

Only three Ontario universities, McMaster, Carleton and Queen's, have agreed to allow faculty members to work past the age of 65 pending the outcome of legal proceedings, which could take three years if they go all the way to the Supreme Court of Canada.

That makes it possible for involuntarily retiring employees of the other universities to start a lawsuit against the employer and have it held in abeyance until the test cases are decided. "It seems sensible for universities to ask people whether they want to stay on or to retire," said Howard Epstein, executive director of OCUFA, "because all the people who would in essence be gambling would be winnowed out, and the universities would be getting an honest year's labour for an honest year's wage."

Most Ontario universities, however, appear to be avoiding the thin edge of the wedge. Beleaguered by financial constraints and with a faculty complement that is mostly in middle age, they are able to make few new appointments. If they were forced to retain faculty past the age of 65, the staffing situation would be even more serious.

Commented *The Globe and Mail* in an

editorial on the test cases: "Abolishing the retirement age would also remove a mechanism for easing out people who are paid top wages for a job they have ceased to do well . . . Yes, it is age discrimination, but in the way that the voting age is discriminatory."

A professor in his thirties was astonished to observe that colleagues who consider themselves liberals feel quite free to say anyone over 65 isn't entitled to a job. "They would never say the same sort of thing about blacks or the disabled."

Clearly, one man's meat is another man's poison. Just after the Charter came into effect, U of T's faculty association and administration agreed on a voluntary early retirement program on the understanding that full-time, continuing replacements will be made for positions vacated. The plan would be paid for by the difference between the junior and senior salaries.

CHILDREN SWARM TO SUMMER PROGRAMS

THE AVERAGE AGE OF CAMPUS DENIZENS dropped somewhat in the summer as 3,000 children swarmed in for sports, arts and academic programs. At Erindale, the Peel Board of Education, in co-operation with U of T, held a two-week residential camp for bright kids and art programs were filled to capacity. Sports, especially tennis, drew many to Scarborough. The Athletic Centre and the Conservatory were the focus of children's activities at St. George. Sample costs: \$35 for two weeks of 45-minute lessons in diving, \$122 for two-week half-day sports camps, \$590 for the residential camp at Erindale.

Karate proved the most popular of the Athletic Centre's offerings for children this summer.



SALARY TALKS LEAD TO SURVEY

SALARY DISCUSSIONS BETWEEN THE University of Toronto Staff Association and the administration in the spring prompted the association to survey its membership to see how much support there would be for increased bargaining power in the form of certification or a voluntary agreement with Governing Council. "It was an unnecessarily long and arduous confrontational process," said UTSA president David Askew. "On three or four occasions we were threatened with imposed settlements. But we held firm and there was further discussion."

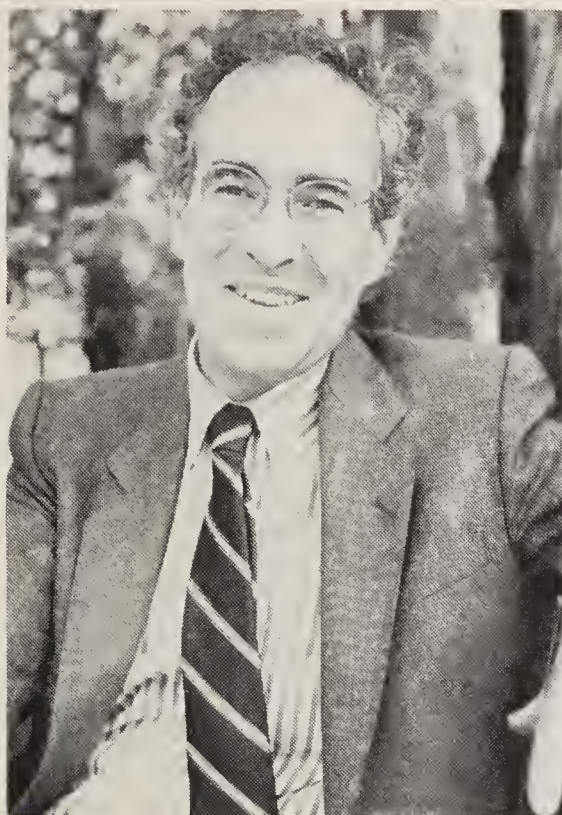
The faculty association has a written agreement with the University that provides for mediation and arbitration if it is not satisfied with the settlement arrived at in annual negotiations with the administration. But UTSA's negotiations are termed "discussions" and UTSA's approval of a recommendation for salary and benefits is not required.

In the survey, 58.6 per cent of the members who responded wanted an agreement. The UTSA Board of Representatives is now working on a first draft.

SEXIST LANGUAGE ZAPPED BY COUNCIL

THE SOCIAL SCIENCES AND HUMANITIES Research Council is distributing a report that urges academics to avoid sexist language and perspectives in research. *On the Treatment of the Sexes in Research* was written for SSHRC by Professor Margrit Eichler, chairman of the sociology in education department of the Ontario Institute for Studies in Education, and Professor Jeanne Lapointe of the literature department at Laval. Their contention is that research cannot be both sexist and good. For example, they recommend that a title indicate whether the work pertains to females, males, or both. All funding juries will have a copy of the report, although SSHRC will not dictate how they should make their decisions.

Commented Erindale philosophy professor Graeme Hunter in a letter to the *Bulletin*: "Only in totalitarian régimes are researchers hired guns, selected to bolster up the current 'goodthinking' with spurious erudition." As his contribution to justice and equality, Hunter is thinking of suggesting that the name of the concordance he's working on be changed to *A Concordance to the Philosophical Writings of G.W. Leibnitz (a Man), for the Use of Females, Males or Both*.



PORTFOLIO AT U OF T FOR DAVID CAMERON

U OF T'S NEW VICE-PRESIDENT (INSTITUTIONAL relations), is David Cameron, 44, a former federal civil servant who began his career as an academic. He succeeds physics professor Donald Ivey, whose term ended in June 1983.

Cameron taught at Trent from 1968 to 1975, serving as chairman of the Department of Political Studies from 1970 to 1975 and as dean of arts and science from 1975 to 1977. In 1977 he left Trent to become director of research for the federal government's Task Force on Canadian Unity. In 1982 he was made assistant under secretary of state for education support in the Department of the Secretary of State.

His portfolio at U of T includes alumni affairs, private funding, communications, public and community relations and government relations.

SENATOR WARNS WOMEN TO PUSH

WOMEN, SAYS SENATOR LORNA MARSDEN, have been so kept down in universities that there isn't much chance they will achieve equality without a fight. Marsden, who teaches sociology at U of T, told a conference of university status of women officers "to make life so difficult for the average faculty member that she or he will participate in a movement of reform".

"Women have been moving through universities for several generations now, but do you notice how few have stuck?"

Faculty members consider that the right to be biased and behave childishly is part of academic freedom, she said. They do not subsume their egos in the interests of meeting objectives swiftly and efficiently.

Nor does she believe the organizational structure of a university lends itself to conventional analysis. "How many of us have seen the most radical of Marxist analysts bullying the secretary into staying late to finish typing his paper on the exploitation of workers so he won't miss the publisher's deadline!"

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THANK YOU

to the many readers who responded to our invitation to become voluntary subscribers to *The Graduate*. To those who intended and forgot, the invitation is still open. Send \$10 to The Graduate, Department of Communications, 45 Willcocks Street, University of Toronto, Toronto, M5S 1A1 and mark it voluntary subscription.

AT THE BOOK SALE

"THIS HAS BEEN A MARVELLOUS book sale," bubbled the Alumni Officer. "We had over 2,000 volumes on sale and counted 637 customers."

"This means," averred the Principal sagely, "that somebody bought at least four books. Here come two more customers, the Gemini twins, but there is not much left for them."

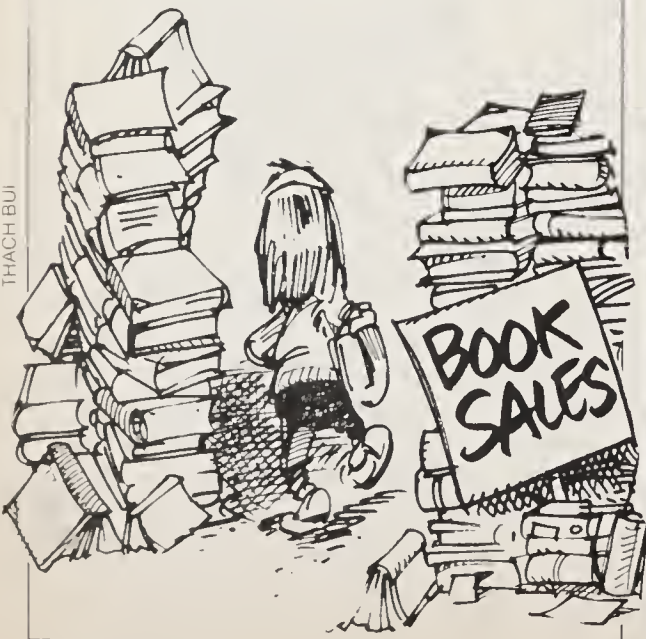
Indeed there wasn't. Only ten very cheap books remained; the prices were 18, 25, 28, 34, 51, 62, 73, 83, 90 and 95 cents. Soon, each twin had picked out some books, and the Alumni Officer was astonished to note that the cost of all the books chosen by one was exactly equal to that for the other. "It is surely unusual that such a thing is possible with so few books," exclaimed the Principal.

"Not at all," grumped the Janitor as he whiffled past. "I've got five dollars that says you cannot give me ten numbers, all under 100, for which it is not possible to find two subsets where the numbers in one subset add up to exactly the same thing as those in the other. You needn't use all of the ten numbers; no number can be used in both subsets, and you must consider only subsets with at least one number in them."

"You're on!" shot back the Principal. "I'll bet I can find easily ten numbers under 100 for which all the subsets have different sums."

How much did each twin pay for his books, and who won the bet?

Address replies to: Aftermath, The Graduate, Department of Communications, University of Toronto, Toronto, M5S 1A1.



THE GRADUATE TEST NO. 32

THE WINNER OF THE Graduate Test No. 30 in the March/April issue was Mark Dale of Edmonton, who has been sent a copy of *The Canadian Prairies*. We received a total of 315 entries.

Winner of Test No. 31 in the May/June issue was Jim Macdonald of Chicago. He has been sent a copy of *The Man From Halifax*. There were 298 entries.

For Test No. 32 the University of Toronto Press has generously provided *North Atlantic Run: The Royal Canadian Navy and the Battle for the Convoys* by Marc Milner, a historian in the Directorate of History, National Defence Headquarters, Ottawa. The RCN's escort operations proved to be one of Canada's most important contributions in the Second World War, and one of the most controversial. This book describes the operations at sea and the political debate at home as the navy grew from a handful of officers and men in 1939 to 96,000 by the end of the war. Entries must be postmarked on or before Oct. 31. The solution will be in the next issue; the winner in Jan./Feb.

Address entries to: The Graduate Test, Department of Communications, University of Toronto, Toronto, M5S 1A1. And please don't forget to include your name and address.

Solution to The Graduate Test No. 31

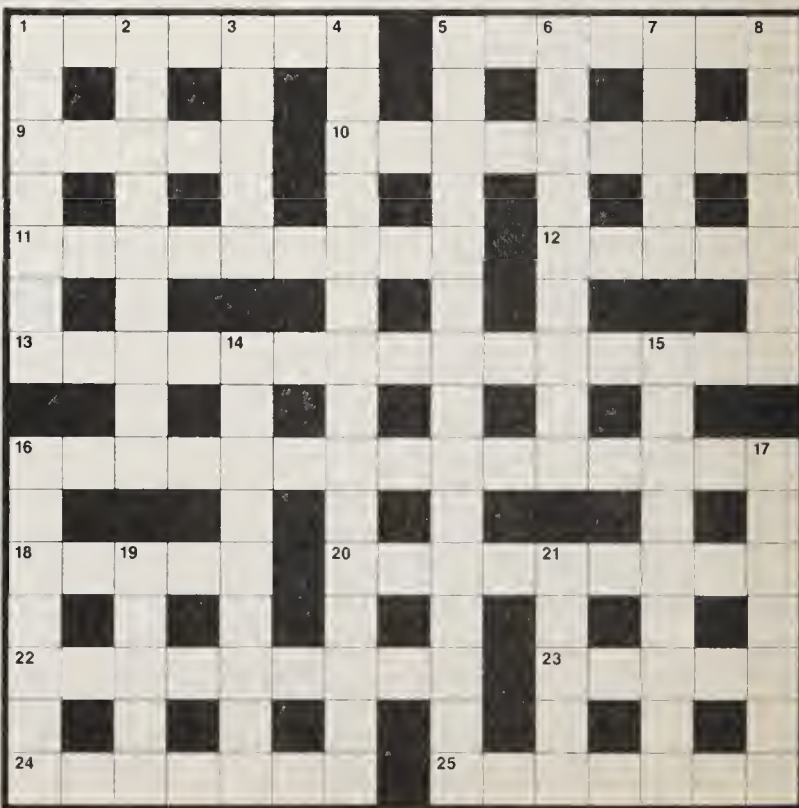
A	S	H	A	M	E	D	P	I	P	E	T	T	E
C	E	E	I	R	O	W	Y						
C	H	A	R	T	S	T	E	R	I	L	I	S	E
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P	E	T	U	L	A	N	C	E	O	I	L	E	R
T	A	T	N	N	O								
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E	G	G	L	S	I	T	S						
T	E	N	S	E	L	Y	S	I	N	U	S	E	S

ACROSS

1. Get a drink from a spheroidal body and turn over (3,4)
5. Jays confused by Pam's unusual sleepwear (7)
9. Insist on being strictly correct (5)
10. Penny Black, perhaps, is one to stay in inclined plane (4,5)
11. Go to the dungeon master, not the same baptismal sponsor (9)
12. One uses strange litter (5)
13. To wantonly pillage, for example, and leave hurriedly; not limited to four inside (5,10)
16. Gaining favour with bit of naughtiness in drinking very quietly after a retrogressive or incomplete value (7,8)
18. A gambling device with University's parting word (5)
20. One next door hears sound of a horse and a wild pig (9)
22. Between north and south it is on the way (2,7)
23. Noisily hurried to start counting French money (5)
24. Sue's mixed up in electric company's estimates (7)
25. About to cast enchantment to give the letters again (7)

DOWN

1. Comes out for oriental blends (7)
2. Ambitious scheme for piano design (5,4)
3. There's much to a game of chance (5)
4. Single parenting beginning after unfinished temple (15)
5. Left sun god over it: rope for Giotto or Rembrandt? (8,7)
6. That which excuses only one fire flickering (9)
7. Servings of food and ale spilled in book (5)
8. Above all, Diana Ross? (7)
14. Courts roll during trials (9)
15. Love it in a confection that's intact (9)
16. Flyers hold computer in 2001 for blubbering? (7)
17. Being highly enthusiastic, I cry all out (7)
19. Is beginning the long-expected fibre (5)
21. Has a foot inside the handles (5)



Woodland Indian Artist Benjamin Chee Chee

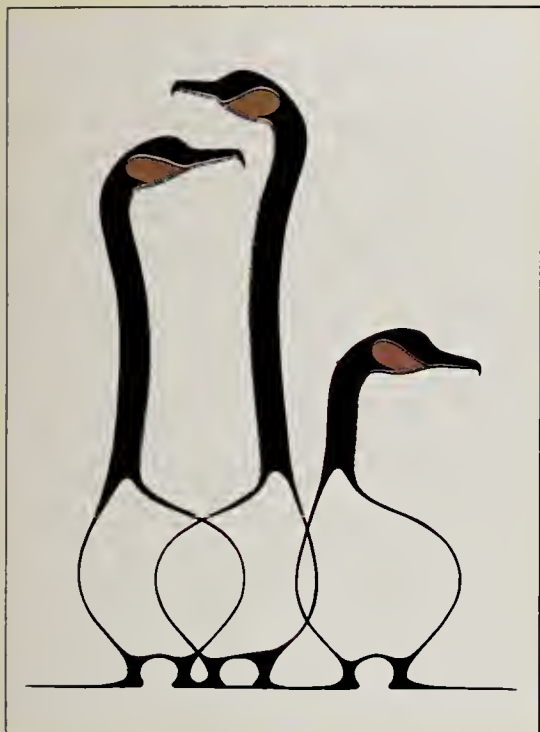
Alumni Media is pleased to present 9 reproductions of works by the late Benjamin Chee Chee. These are the only reproductions authorized by the artist's estate.

A mainly self-taught artist, Chee Chee was a prominent member of the second generation of woodland Indian painters.

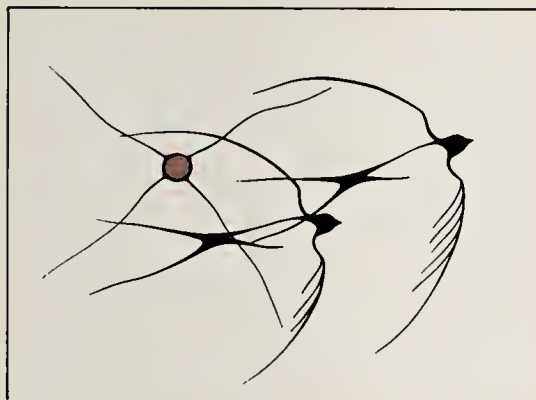
Unlike many of his contemporaries who employed direct and "primitive" means, Chee Chee's work was influenced by modern abstraction. His style reduced line and image in keeping with international modern art.

At the age of 32, at the height of his success, Chee Chee died tragically by suicide.

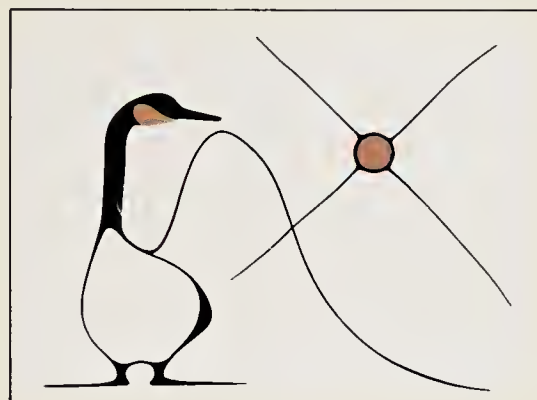
These reproductions are printed on high quality, textured stock and measure 48 cm x 61 cm (19"x24").



A Friends



B Swallows



C Good Morning



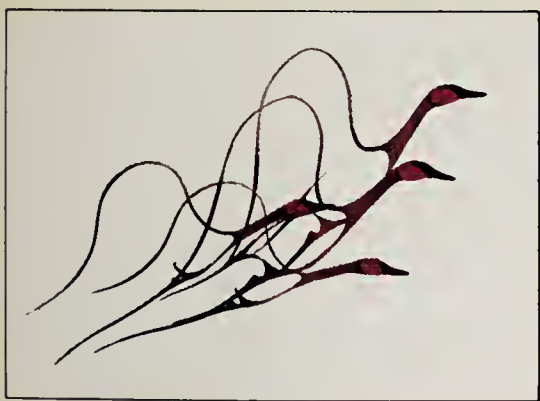
D Proud Male



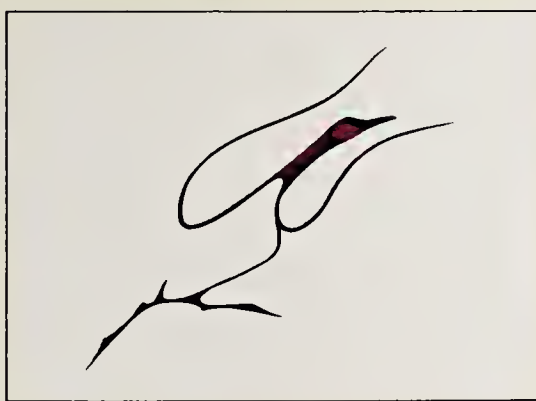
E Mother & Child



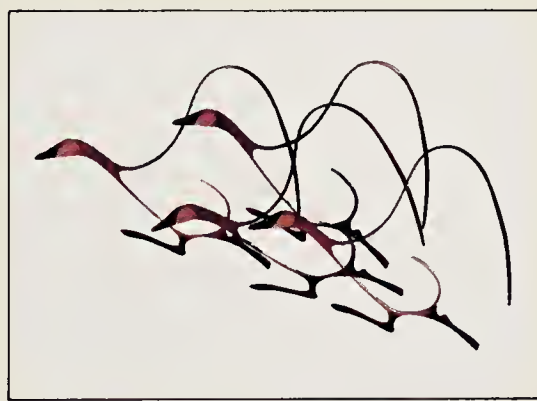
F Sun Bird



G Spring Flight



H Wait For Me



I Autumn Flight

Please send me the following Benjamin Chee Chee print reproductions at \$23.95 each or \$88.00 for any four, plus \$4.95 for handling and shipping (overseas: \$7.50). Ontario residents please add 7% sales tax to combined cost of print(s) plus shipping/handling.

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